### TABLE OF CONTENTS:

- 1. ABC Fire Extinguisher pg 3 6
- 2. Advanced Fluid Technologies pg 7 10
- 3. Aervoe Profesional Choice pg 11 17
- 4. Air Gas pg 18 61
  - Acetylene pg 18
  - Argon pg 29
  - Nitrogen pg 40
  - Oxygen pg 51
- 5. Armstrong Commercial Floor Polish pg 62 69
- 6. Blaster pg 70 83
- 7. Castle pg 84 101
- 8. Castrol Trans Max Type F pg 102 109
- 9. Chevron/Delo pg 110 165
- 10. Clorox pg 166 173
- 11. CRC pg 174 192
- 12. Crystal Clean Mineral Spirits pg 193 202
- 13. Dawn Ultra Dishwashing Liquid pg 203 209
- 14. Diesel Fuel Supplement +cetane boost pg 210 220
- 15. Dura II A/C Flush solvent pg 221 233
- 16. GOJO Natural orange pg 234 245
- 17. Great Value GV LDU Formula 12092 pg 246 254
- 18. Hess Gas pg 255 270
- 19. Hess Diesel pg 271 280
- 20. IMCO MG-Krete concrete resurfacer PART B pg 281 284
- 21. JCB pg 285 313
- 22. John Deere HY-Gard and Hy-gard LV transmission and hydraulic fluid pg 314 320
- 23. Lucas Oil Products Inc. pg 321 335
- 24. Lysol Products Inc. pg 336 373
- 25. Marvel Mystery Oil pg 374 382
- 26. Meguiars pg 383 389
- 27. Waterless Hand Cleaner pg 390 400
- 28. Napa Products pg 401 529
- 29. Oatey Purple Primer pg 530 542
- 30. Oil Dri pg 543 551
- 31. DOWFlake Xtra 83-87% Calcium Chloride Flakes pg 552 565
- 32. PARTS Master Dex/Merc ATF pg 566 578
- 33. PEAK Long Life 50/50 Prediluted Antifreeze/Coolant pg 579 587
- 34. Pennzoil ATF Type F pg 588 601
- 35. Hydrogen Peroxide 35% pg 602 610

### **TABLE OF CONTENTS:**

- 36. Phoenix 27-A Water Dispersible Pipe Joint Lubricant pg 611 612
- 37. Portland Cement pg 613 623
- 38. Quaker State products pg 624 631
- 39. Quikrete pg 632 -653
- 40. Rustoleum pg 654 660
- 41. STIHL Products pg 661 685
- 42. Scrubbing Bubble Bathroom Cleaner pg 686 697
- 43. Simple Green All Purpose Cleaner pg 698-702
- 44. SuperS Mineral Spirits pg 703 714
- 45. StarBrite RV wash and wax pg 715 726
- 46. St. Mary's Cement Products pg 727 736
- 47. Tech Rub-O-Matic pg 737 749
- 48. SuperTech -20 degree Windshield Washer Fluid pg 750 764
- 49. SynPower Synthetic SAE 75W-140 Limited Slip Gear Oil pg 765 783
- 50. VOLVO pg 784 807
- 51. Gold Band Non-Detergent Motor Oil pg 808 814
- 52. The Works Toilet Bowl Cleaner pg 815 822
- 53. WD 40 pg 823 827
- 54. Windex pg 828 836
- 55. Wolf's Head Lubricants pg 837 845
- 56. Xtreme Blue + 32 Windshield Washer Fluid pg 846 852
- 57. ZEP Cherry Bomb pg 853 862



#### MATERIAL SAFETY DATA SHEET

### **ABC Fire Extinguisher**

Issue Date: 11-12-2013

#### 1. Product and Company Identification

Material name ABC Fire Extinguisher

Version # 02

Revision date 11-12-2013 CAS # Mixture

Product use Fire Extinguisher

Manufacturer / Importer /

Supplier

Name Tyco Fire Protection Products

Address One Stanton Street

Marinette, WI 54143-2542

Phone 715-732-3465

Internet http://www.pyrochem.com

Emergency Phone Number CHEMTREC 800-424-9300 or 703-527-3887

#### 2. Hazards Identification

Emergency overview WARNING

Irritating to eyes and skin. Prolonged exposure may cause chronic effects.

Potential health effects

**Routes of exposure** Eye contact. Skin contact. Inhalation. Ingestion.

**Eyes** Contact with eyes may cause irritation.

Skin Avoid contact with the skin. May cause skin irritation.

Inhalation Inhalation of dusts may cause respiratory irritation.

IngestionNot a likely route of entry.Target organsEyes. Respiratory system. Skin.

Signs and symptoms Irritation of eyes and mucous membranes.

#### 3. Composition / Information on Ingredients

Non-hazardous components	CAS#	Percent
AMMONIUM HYDROGEN SULFATE	7783-20-2	10 - 30
Other components below reportable levels		> 60

#### 4. First Aid Measures

First aid procedures

**Eye contact** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention if irritation persists after washing.

**Skin contact** Wash off with warm water and soap. Get medical attention if irritation develops and persists.

**Inhalation** Move to fresh air.

**Ingestion** Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting

occurs, keep head low so that stomach content doesn't get into the lungs.

General advice If you feel unwell, seek medical advice (show the label where possible). Ensure that medical

personnel are aware of the material(s) involved, and take precautions to protect themselves.

Show this safety data sheet to the doctor in attendance.

Material name: ABC Fire Extinguisher

MSDS CANADA

1667 Version #: 02 Revision date: 11-12-2013

#### 5. Fire Fighting Measures

Extinguishing media

Suitable extinguishing

media

This product is not flammable. Use extinguishing agent suitable for type of surrounding fire.

**Protection of firefighters** 

Specific hazards arising from the chemical

None known.

Protective equipment for

firefighters

None known.

Special protective equipment

for fire-fighters

None known.

**Explosion data** 

Sensitivity to mechanical

impact

Not available.

Sensitivity to static

discharge

Not available.

Hazardous combustion

products

Carbon monoxide and carbon dioxide.

#### 6. Accidental Release Measures

Personal precautions Do not touch damaged containers or spilled material unless wearing appropriate protective

clothing. Avoid inhalation of dust from the spilled material. Wear a dust mask if dust is generated

above exposure limits.

**Environmental precautions** 

Do not contaminate water.

Methods for containment

If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Prevent entry into waterways, sewer, basements or confined areas.

Methods for cleaning up

Should not be released into the environment. Sweep up or vacuum up spillage and collect in suitable container for disposal. Collect dust using a vacuum cleaner equipped with HEPA filter. Avoid the generation of dusts during clean-up. Clean up in accordance with all applicable

regulations. Following product recovery, flush area with water.

Other information Clean up in accordance with all applicable regulations.

#### 7. Handling and Storage

Handling Minimize dust generation and accumulation. Provide appropriate exhaust ventilation at places

where dust is formed. Do not breathe dust. Avoid contact with eyes. Wash thoroughly after

handling. Wear personal protective equipment.

Storage Guard against dust accumulation of this material. Use care in handling/storage.

#### 8. Exposure Controls / Personal Protection

Personal protective equipment

Eye / face protection

Wear safety glasses with side shields (or goggles).

Skin protection

Wear chemical protective equipment that is specifically recommended by the manufacturer. It

may provide little or no thermal protection.

Respiratory protection

In the case of respirable dust and/or fumes, use self-contained breathing apparatus.

#### 9. Physical & Chemical Properties

**Appearance** 

Form Powder.
Color Yellow.
Odor Odorless.
Physical state Solid.

pH Not available.

Melting point Not available.

Freezing point Not available.

Boiling point Not available.

Flash point Not available.

Material name: ABC Fire Extinguisher

Not available. **Evaporation rate** Flammability limits in air, upper, Not available.

% by volume

Flammability limits in air, lower, Not available.

% by volume

Not available. Vapor pressure Vapor density Not available. Not available. Specific gravity Relative density Not available. Not available. Solubility (water) **Partition coefficient** 

(n-octanol/water)

Not available

**Auto-ignition temperature** Not available. **Decomposition temperature** Not available.

#### 10. Chemical Stability & Reactivity Information

Material is stable under normal conditions. **Chemical stability** 

Incompatible materials Hazardous decomposition

products

Strong acids. Carbon oxides.

#### 11. Toxicological Information

**Toxicological information** The toxicity of this product has not been tested.

**Chronic effects** Prolonged inhalation may be harmful. Not expected to be hazardous by WHMIS criteria.

#### 12. Ecological Information

#### **Ecotoxicological data**

Components	Test Results
AMMONIUM HYDROGEN SULFATE (7783-20-2)	EC50 Water flea (Ceriodaphnia dubia): 52 - 67 mg/l 48.00 hours
	LC50 Pink salmon (Oncorhynchus gorbuscha): 0.068 mg/l 96.00 hours

This material is not expected to be harmful to aquatic life. **Ecotoxicity** 

**Environmental effects** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Persistence and degradability Not available. **Partition coefficient** Not available

(n-octanol/water)

#### 13. Disposal Considerations

Dispose of contents/container in accordance with local/regional/national/international regulations. **Disposal instructions** 

Dispose of waste material according to Local, State, Federal, and Provincial Environmental

Regulations.

Waste from residues / unused

products

Dispose of in accordance with local regulations.

#### 14. Transport Information

#### **TDG**

Not regulated as dangerous goods.

#### 15. Regulatory Information

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS Canadian regulations

contains all the information required by the CPR.

**WHMIS status** Controlled

WHMIS classification A - Compressed Gas

Material name: ABC Fire Extinguisher

#### WHMIS labeling



#### Inventory status

Country(s) or region	Inventory name On inventory (	yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
*A "Yes" indicates that all compo	nents of this product comply with the inventory requirements administered by the governing country(s)	

#### 16. Other Information

**Further information** HMIS® is a registered trade and service mark of the NPCA.

Health: 1\* **HMIS®** ratings

Flammability: 0 Physical hazard: 0

Health: 1 NFPA ratings

Flammability: 0 Instability: 0

The information provided in this Safety Data Sheet is correct to the best of our knowledge, **Disclaimer** 

information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any

other materials or in any process, unless specified in the text.

Issue date 11-12-2013

Material name: ABC Fire Extinguisher

MSDS CANADA 1667 Version #: 02 Revision date: 11-12-2013

# **CONFIDENTIAL Safety Data Sheet**

# Section 1 Product and Company Identification

Manufacturer

Advanced Fluid Technologies, Inc.

P.O. Box 505

Jackson, MI 49204

United States of America

Phone: 517-796-9737

Fax: 517-796-9738

Recommended Usage: Water Based Cleaner Other Identifier: Alkaline Cleaner, Concentrate

Product Name: Steri-C15

**Emergency Phone Numbers** 

847-285-1888 Normal Business Hrs. USA & Canada Chemtrec 800-424-9300 International Chemtrec 703-527-3887

### Section 2 Hazards Identification

Classification of the Mixture: Clear or slight hazy lt. straw liquid. Characteristic odor.

Most Important Hazards: Causes skin and eye irritation.

Hazard Classification:

Cause eye irritation - Category 2A Causes skin irritation - Category 2

Signal Word: Warning

Pictograms:



#### Precautionary Statements:

Wear protective gloves and eye protection.

Skin - Wash with plenty of soap and water. If skin irritation occurs, get medical attention.

Eyes - Avoid contact with eyes. If in eyes, rinse with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. If eye irritation persists, get medical attention

Take off contaminated clothing and wash before reuse.

Classification complies with OSHA Hazard Communication Standard(29 CFR 1910.1200) and is consistent with provisions of GHS.

Quantity of Ingredients with Unknown Acute Toxicity: <1.0%

Section 3 Composition Information on Ingredients				
Ingredient	WT %	CAS#		
Water	60-80	7732-18-5		
2-amino-2-methyl-1-propanol	0-5	124-68-5		
Sodium Hypochlorite Soln.	0-5	7681-52-9		
Isopropyl Alcohol	1-10	67-63-0		
Potassium citrate	5-10	866-84-2		
Ethoxylated nonylphenol	0-5	9016-45-9		
Quaternary Ammonium Compound	0-5	68478-94-4		
Tetrasodium EDTA	0-5	64-02-8		

### Section 4 First Aid Measures

<u>Eves</u>: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. If redness, burning, blurred vision or irritation persists, transport to nearest medical facility for additional treatment.

Skin: Flush skin with water, wash with soap and water. If irritation occurs, get medical attention. Remove contaminated clothing. Do not reuse clothing until cleaned. If material is injected under the skin, transport to the nearest medical facility for additional treatment. If redness, swelling, pain and/or blisters occur, transport to the nearest medical facility for additional treatment.

Ingestion: Do NOT induce vomiting and obtain medical attention. Have victim rinse mouth out with water. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If the victim has difficulty breathing or tightness of the chest, is dizzy, vomiting or unresponsive, give oxygen with rescue breathing or CPR as required and transport to the nearest medical facility.

# **Section 5 Fire Fighting Measures**

Flammable Properties:

Flash point: none (ASTM D56)

Flammable limits in air: N/A

Auto ignition temperature:

N/A

Extinguishing media: CO2, dry chemical, foam

Special firefighting measure:

The material as received will not support combustion, however its residues may; therefore, procedures for an oil fire should be followed. Use self-contained breathing apparatus. Use foam or dry chemical to extinguish fire. Water may be used only to keep surrounding containers cool. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

# Section 6 Accidental Release Measures

- Eliminate ignition sources and ventilate area.
- Absorb spillage with inert absorbent material.
- Contain spill and keep from entering waterways or sewers.
- Advise EPA/state agency if required.
- Use proper personal protective equipment for clean-up.
- Treat contaminated absorbent same as spilled product.

Section 7 Handling and Storage

Handling and Storage Precautions: Avoid heat, open flames, including pilot lights, and strong oxidizing agents. Use general ventilation to prevent vapor accumulation. Ground all handling equipment to prevent sparking. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Have appropriate fire extinguishers and spill clean-up equipment in or near storage area.

Work/Hygienic Practices: Wash with soap and water before eating, drinking, smoking, applying cosmetics, or using toilet. Launder contaminated clothing before reuse. Properly dispose of contaminated leather articles such as shoes or belts that cannot be decontaminated. Contaminated leather articles including shoes cannot be decontaminated and should be destroyed to prevent reuse.

# Section 8 Personal Protection/ Exposure Controls

Engineering Controls: Use adequate ventilation to keep vapors and mists of this material below applicable standards.

Respiratory Protection: If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, an approved respirator must be worn. Respirator selection, use and maintenance should be in accordance with the requirements of the OSHA Respiratory Protection Standard, 29 CFR 1910.134.

Skin Protection: Use protective clothing that is chemically resistant to this product. Acceptable materials for gloves and aprons are: neoprene, nitrile rubber or viton.

Eye Protection: Use safety glasses or goggles. Have suitable eye wash water available.

Other/General Protection: For mists and vapors: Air Purifying, organic vapor cartridge, NIOSH approved respirator. Use self-contained breathing apparatus for environments with unknown concentrations or emergency situations.

Chemical Name

OSHA TWA (mg/m³) ACGIH TWA (mg/m³)

Section 9 Physical and Chemical Properties

Color: Lt. Straw Appearance: Clear Liquid

Odor:

pH@ 10%:

Characteristic Boiling Point: >212° F

10.5-11.4

Vapor Pressure:

N/A % Volatile by Volume: N/A Vapor Density (air = 1): N/A

Reactivity in Water:

Viscosity @ 40C:

Solubility in Water:

**Evaporation Rate** 

Complete <1

(Butyl Acetate = 1): Specific Gravity:

1.062

Section 10 Stability and Reactivity

Conditions to avoid: Sources of ignition. Incompatibility: Strong oxidizing or reducing agents. Stability: Stable Decomposition Products: Oxides of Carbon, Hydrogen and Nitrogen. Hazardous Polymerization: Will not occur.

# Section 11 Toxicological Information

Likely Routes of Exposure: Inhalation, skin, eyes and ingestion.

Potential Health Effects:

Eye Effects: This mixture can cause irritation, redness to the eyes.

Skin Effects: Prolonged and/or repeated skin contact may cause irritation/dermatitis.

Oral Effects: Harmful if swallowed. May cause burns to mouth and esophagus. Gastrointestinal tract irritation, nausea and vomiting.

Non-reactive

N/A

Inhalation Effects: Harmful if inhaled. May cause respiratory tract irritation.

Chronic Health Effects: Primary target organs following repeated exposure are eyes, skin, lungs.

Mutagenicity: Negative

Carcinogenicity: This mixture does not contain any component that is listed as a carcinogenic or a potential carcinogen by the National

Toxicology Program, by the I.A.R.C. monographs or by OSHA.

Teratogenicity: Negative. Sensitization: Negative

Toxicological Data: No data available or estimated

# Section 12 Ecological Information

Not classified due to inadequate data available on this mixture. Recommend avoidance of release to the environment.

## **Section 13 Disposal Considerations**

Avoid release to the environment. Dispose in a safe manner in accordance with national, state and local regulations. Not a RCRA hazardous waste if uncontaminated. If "used" RCRA criteria must be determined. Dispose of container by recycling or if permitted incineration.

# Section 14 Transportation Information

Proper Shipping Name: Detergents, Soaps.

Shipping Class: 55

Dot Identification Number: N/A

Dot Shipping Label: Not regulated by DOT:

TDG Classification: Not controlled under TDG (Canada).

### **Section 15 Regulatory Information**

U.S. Federal Regulatory Information:

SARA 302 Threshold Planning Quantity: N/A

SARA 304 Reportable Quantity: N/A

SARA 311 Categories:

Acute Health Effects:

Yes

Chronic Health Effects:

None

Fire Hazard:

No

Sudden Release of Pressure Hazard; No

Reactivity Hazard:

EPA/TSCA Inventory: The components of this product are listed on the EPA/TSCA inventory of chemicals.

EPA Hazard Classification Code: Not applicable

CERCLA: No chemicals in this product are subject to the reporting requirements of CERCLA.

SARA Title III - Section 313 Supplier Notification: No Chemicals in this product exceed the DE Minimus reporting level established

by SARA Title III, Section 313 and 40 CFR 372.

WHMIS Classification: WHMIS controlled. Class D; Division 2, Subdivision B; otherwise causing toxic effects. Other Regulations: All components of this formulation are listed on the CEPA-DSL (Domestic Substance List)

### Section 16 Other Information

NFPA Hazard Rating:

Health: Moderate Flammability: 0 Negligible Negligible Reactivity:

SDS Dated: 04/01/2020

SDS Revision Date: 04/01/2020

\*Threshold Limit Value/Personal Exposure Limit

N/A = Not ApplicableN/E = Not Established

#### Disclaimer of Express or Implied Warranties

The information contained herein is based upon data believed to be reliable and reflects our best professional judgment. Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy of completeness of the information contained therein and assume no responsibility regarding the suitability of this information for the user's intended purpose or for the consequence of its use. Each individual should make a determination as to the suitability of the information for his/her particular purpose(s).

#### 1.) Identification of the Mixture and of the Company

Product identifier: Professional Choice

Product name:

**Professional Choice Tree Marking Paint** 

<b>Regular Colors</b>		Fluorescent Colors	
6310 Red	6350 Light Blue	6490 Fluorescent Red	6493 Fluorescent Yellow
6330 Yellow	6370 White	6492 Fluorescent Orange	6495 Fluorescent Blue

Relevant identified uses of the substance: Use for marking cut wood, trees, logs, railroad ties, pulpwood and finished lumber for grade and select cut marking.

Uses advised against: Poorly vented areas.

CAS No: Not Applicable (mixture)
EC No: Not Applicable (mixture)
Index No: Not Applicable (mixture)

Manufacturer/Supplier: Aervoe Industries Incorporated

Street address/P.O. Box: 1100 Mark Circle

Country ID/Postcode/Place Gardnerville, Nevada 89410

Telephone number: 1-775-782-0100

e-mail: mailbox@aervoe.com

National contact: Aervoe industries Incorporated

For Product Information: 1-800-227-0196

Emergency telephone number: 1-800-424-9300 (CHEMTREC – 24 hrs)

#### 2. Hazards identification

#### Classifications

Physical Hazards: Aerosol - Category 1

Flam. Gas. 1 Liquefied Gas Flam. Liq. 2 Flam. Liq.3

Health Hazards: Car 1B

Muta 1B Asp Tox. 1 STOT SE3 STOT RE 1 Skin Irrit 2 Eye Irrit. 2

Environmental Hazards: Aquatic Tox. 2

Labeling

Signal Word: Danger

# Safety Data Sheet (SDS)

Date Prepared/Revised: 12/30/21 Version no.: 05 Supersedes: (9/21/21)

Hazard Statements: H220 – Extremely flammable gas.

H222 – Extremely flammable aerosol.

H224 – Extremely flammable liquid and vapour. H225 – Highly flammable liquid and vapour.

H226 – Flammable liquid and vapour.

H229 - Pressurized container: may burst if heated H304 – May be fatal if swallowed and enters airways.

H315 – Causes skin irritation.

H319 – Causes serious eye irritation.

H336 – May cause drowsiness or dizziness.

H340 – May cause genetic defects

H350 – May cause cancer

H372 - Causes damage to organs through prolonged or repeated exposure

H411 – Toxic to aquatic life with long lasting effects.

Precautionary Statements:

P101 - If medical advice is needed, have product container or label at hand

P102 - Keep out of reach of children

P103 - Read label before use

P210 - Keep away from heat/sparks/open flames/hot surfaces - no smoking

P211 - Do not spray on an open flame or other ignition source

P251 - Pressurized container: Do not pierce or burn, even after use

 $P261-Avoid\ breathing\ dust/fume/gas/mist/vapours/spray$ 

P262 - Do not get in eyes, on skin, or on clothing

P264 - Wash ... thoroughly after handling

P280 - Wear protective gloves/eye protection/face protection

P303+P361+P353 - If on skin or hair, remove/takeoff immediately all contaminated clothing. Rinse skin with water/shower.

P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding  $50^{\circ}\text{C}/122^{\circ}\text{F}$ 

P501 - Dispose of contents/container in accordance with local/regional/national/international regulation



Symbols/Pictograms:

#### 3. Composition / Information on Ingredients

#### Composition

Chemical	Synonyms	CAS	EINECS	Weight	Hazard	H-Code
		Number	Number	Percent	Category	
Hydrocarbon Propellant	LPG	68476-86-8	270-705-8	30-60%	Press. Gas	H220
					Flam. Gas 1	H229
Acetone	Propanone	67-64-1	200-662-2	10-30%	Flam. Liq. 2	H225
	_				Eye Irrit. 2	H319



# Safety Data Sheet (SDS)

Date Prepared/Revised: 12/30/21 Version no.: 05 Supersedes: (9/21/21)

					STOT SE 3	H336
Ethyl Acetate	Ethanoate	141-78-6	205-500-4	7-13%	Flam. Liq. 2	H225
					Eye Irrit. 2	H319
					STOT SE 3	H336
Aliphatic Petroleum	Solvent Naphtha	64742-89-8	265-192-2	7-13%	Flam Liq. 2	H224
Distillates					Skin Irr. 2	H304
					Asp. Tox. 1	H315
					STOT SE 3	H336
					Aquatic Tox. 2	H411
n-Methyl-2-Propanol	2-Methoxy-1-	108-65-6	203-603-9	1-5%	Flam. Liq. 3	H226
Acetate	Methylethyl Acetate					
Aliphatic Hydrocarbon	Petroleum Distillate	8052-41-3	232-489-3	1-5%	Carc. 1B	H304
					Muta. 1B	H340
					Asp. Tox. 1	H350
					STOT RE 1	H372
						(Nervous)

#### **Other Product Information**

Chemical Identity: Mixture

#### 4.) First Aid Measures

**General Advice:** If symptoms persist, always call a doctor.

**Inhalation First Aid:** Remove victim to fresh air and provide oxygen if breathing is

difficult. If not breathing, give artificial respiration, preferably

mouth to mouth. Get medical attention immediately.

Skin Contact First Aid: Wash with soap and water. Remove contaminated clothing and

shoes. Get medical attention immediately. Wash clothing before

reuse.

**Eye Contact First Aid:** If contact with eyes, immediately flush eyes with plenty of water

for at least 15 minutes, while holding eyelids open. Get medical

attention immediately.

**Ingestion First Aid:** If swallowed, wash out mouth with water provided the person is

conscious. Do not induce vomiting. Never give anything by mouth

to an unconscious person. Get medical attention immediately.

**Most Important** 

**Symptoms/Effects:** Exposure may cause slight irritation to the skin, eyes, and respiratory tract.

Excessive exposure may cause central nervous system effects.

#### 5. Fire Fighting Measures

Flammable Properties: Aerosol Auto Ignition Temperature: Not Available

Suitable extinguishing media: Carbon dioxide, dry chemical, water spray.

Unsuitable extinguishing media: None known

Special hazards arising from the

substance or mixture:

None known

Hazardous combustion products: Carbon dioxide, Carbon monoxide



Fire & Explosion Hazards: Closed Containers may rupture due to the buildup of pressure

from extreme temperatures.

Precautions for fire-fighters: Use water spray to cool containers exposed to heat or fire to prevent

pressure build up. In the event of a fire, wear full protective clothing and NIOSH- approved self-contained breathing apparatus with full face piece

operated in the pressure demand or other positive pressure mode.

#### 6. Accidental Release Measures

#### PERSONAL PRECAUTIONARY MEASURES:

- 1) Follow personal protective equipment recommendations found in section 8.
- 2) Maintain adequate ventilation.

#### **SPILL CLEAN-UP PROCEDURES:**

- 1.) Evacuate unprotected personnel from the area.
- 2.) Remove sources of ignition if safe to do so.
- 3.) Pickup spilled materials using non-sparking tools and place in an appropriate container for disposal.
- 4.) Contain spill to prevent material from entering sewage or ground water systems.
- 5.) Always dispose of waste materials in accordance with all EU, National and Local Regulations.

### 7. Handling and Storage

#### Handling:

Flammable Aerosol, use in a well ventilated area.

Do not use near sources of ignition.

Do not to eat, drink and smoke while working with this material.

Wash hands after use.

#### Conditions for safe storage, including any incompatibilities:

Store out of direct sunlight.

Storage Temperature: 32° to 120°F (0° to 49°C).

No known incompatibilities.

#### 8. Exposure Controls / Personal Protection

#### **Appropriate engineering controls:**

Ensure adequate ventilation. A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits.

Keep away from sources of ignition.

Take precautionary measures against static discharge.

#### **Personal Protection:**

Eye & face protection devices such as safety glasses, safety goggles or face shield are recommended.

#### **Skin protection**

Wear the appropriate protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.



#### **Respiratory protection:**

Use only in an adequately ventilated area. For unknown vapor concentrations use a positive-pressure, pressure-demand, self-contained breathing apparatus (SCBA).

Hazardous Ingredient	CAS	ACGIH	ACGIH	OSHA PEL	OSHA PEL
	Number	TLV (TWA)	TLV (STEL)	(TWA)	(STEL)
Hydrocarbon Propellant	68476-86-8	N/A	N/A	N/A	N/A
Acetone	67-64-1	250PPM	500PPM	1000PPM	N/A
Ethyl Acetate	141-78-6	400PPM	N/A	400PPM	N/A
Aliphatic Petroleum Distillates	64742-89-8	N/A	N/A	N/A	N/A
n-Methyl-2-Propanol Acetate	108-65-6	N/A	N/A	N/A	N/A
Aliphatic Hydrocarbon	8052-41-3	100PPM	N/A	500PPM	N/A

<sup>\*</sup>Values are based on the 2019 Guide to Occupational Exposure Values by ACGIH

#### 9. Information on Basic Physical and Chemical Properties

Appearance: Color varies by product.	Odor: Hydrocarbon Odor
Odor Threshold: N/AV	pH: Not Applicable (solvent Base)
Melting Point: N/AV	Freezing Point: N/AV
Initial Boiling Point: N/AV	Boiling Point Range: N/AV
Flash Point: <0° F (-18° C)	Evaporation Rate: Faster than n-Butyl
	Acetate
Flammability Solid/Gas: Flammable gas	LEL: 0.9% UEL: 14%
Vapor Pressure: N/AV	Vapor Density: Heavier Than Air
Relative Density: N/AV	Solubility: Negligible
Partition Coefficient:	Auto-ignition Temperature: N/AV
n-octanol/ water: N/AV	
Decomposition Temperature: N/AV	Viscosity: N/AV
Explosive Properties: N/AV	Oxidizing Properties: N/AV

#### 10. Stability & Reactivity

Possibility of hazardous reactions: Hazardous polymerization will not occur under normal conditions

Chemical stability: Stable under normal conditions Conditions to avoid: Heat and ignition sources Incompatible materials: Strong Oxidizing Agents Hazardous decomposition products: Will not occur

#### 11. Toxicological Information

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. Repeated overexposure can also damage kidneys, lungs, liver, heart and blood

Routes of exposure: Eyes, skin, ingestion, and/or inhalation

Acute toxicological data: (Acetone) Acute oral LD50: 5800mg/kg(rat)

(Acetone) LC50: 21000 ppm / 8 hr (rat)

Eye irritation data: Eye Irrit. 2

Skin irritation/sensitization/absorption data: Skin Irrit. 2

Reproductive toxicity data: N/AV

Mutagenicity data: Muta 1B

Symptoms associated with physical contact: N/AV

Acute/chronic effects from short/long

term exposure: Irritating to skin. Prolonged/repeated contact may

cause defatting of the skin which can lead to dermatitis. Not expected to be a skin sensitizer.

Known reportable carcinogens via the

following agencies:

NTP: N/AV

IARC: IARC3:Classification not possible from current data

OSHA: TLV-A4

#### 12. Ecological Information

Ecotoxicity: No Data Available

Persistence and degradability: **No Data Available** Bioaccumulative potential: **No Data Available** 

Mobility in soil: No Data Available

Results of PBT and vPvB assessment: No Data Available

Other adverse effects: No Data Available

#### 13. Disposal Considerations

**Waste Disposal:** Dispose of material in accordance with EU, national and local requirements. For proper disposal of used material, an assessment must be completed to determine the proper and permissible waste management options permitted under applicable rules, regulations and/or laws governing your location.

**Product / Packaging disposal:** Dispose of packaging in accordance with federal, state and local requirements, regulations and/or laws governing your location.

#### 14. Transportation Information

#### **US DOT**

UN	Proper Shipping Name	Hazard Class	Packing	Marine	Special
Number			Group	Pollutant	Provisions
UN1950	Aerosols	2.1	Not	Not	Reference 49



			Applicable	Applicable	CFR 172.101
<b>IMDG</b>					
UN	Proper Shipping Name	Hazard Class	Packing	Marine	Special
Number			Group	Pollutant	Provisions
UN1950	Aerosols	2.1	Not	Not	Reference
			Applicable	Applicable	IMDG code
					part 3

#### IATA:

UN	Proper Shipping Name	Hazard Class	Packing	Marine	Special
Number			Group	Pollutant	Provisions
UN1950	Aerosols, Flammable	2.1	Not Applicable	Not Applicable	Reference IATA
					Dangerous
					Goods
					Regulation

#### 15. Regulatory Information

#### **Workplace classification:**

This product is considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200). The Occupational Safety and Health Administration's interpretation of the product's hazard to workers.

#### **SARA Title 3:**

Section 311/312 Categorizations (40 CFR 372): This product is a hazardous chemical under 29 CFR 1910.1200, and is categorized as an immediate and delayed health, and flammability physical hazard. Superfund Amendment and Reauthorization Act (SARA) category. SARA requires reporting any spill of any hazardous substance.

**TSCA status:** All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

WHMIS: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the (M)SDS contains all of the information required by the CPR. **PROP 65 (CA):** WARNING: Cancer and Reproductive Harm – WWW.P65Warnings.ca.gov.

#### 16. Other Information

This SDS has been completed in accordance with GHS Rev04 (2011): U.S OSHA, CMA, ANSI, Canadian WHMIS standards, and European Directives.

Date of Preparation/Revision: 12/30/21

Supersedes: (9/21/21)

To the best of our knowledge, the information contained herein is believed to be accurate. However, the above data does not imply any guarantee or warranty of any kind, expressed or implied. The final determination of the suitability of any material is the sole responsibility of the user. All materials made present un-known hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee these are the only hazards existing.

# SAFETY DATA SHEET



#### Acetylene

### **Section 1. Identification**

**GHS** product identifier : Acetylene **Chemical name** : acetylene

Other means of : Ethyne; Ethine; Narcylen; C2H2; Acetylen; UN 1001; Vinylene identification

: Gas. **Product type** 

**Product use** : Synthetic/Analytical chemistry.

: Ethyne; Ethine; Narcylen; C2H2; Acetylen; UN 1001; Vinylene **Synonym** 

: 001001 SDS#

Supplier's details : Airgas USA, LLC and its affiliates

259 North Radnor-Chester Road

Suite 100

Radnor, PA 19087-5283

1-610-687-5253

24-hour telephone : 1-866-734-3438

### Section 2. Hazards identification

: This material is considered hazardous by the OSHA Hazard Communication Standard **OSHA/HCS** status

(29 CFR 1910.1200).

: FLAMMABLE GASES - Category 1 Classification of the

GASES UNDER PRESSURE - Compressed gas substance or mixture

**GHS** label elements

**Hazard pictograms** 





Signal word Danger

: Extremely flammable gas. **Hazard statements** 

> Contains gas under pressure; may explode if heated. May displace oxygen and cause rapid suffocation.

May form explosive mixtures with air.

**Precautionary statements** 

**General** : Read and follow all Safety Data Sheets (SDS'S) before use. Read label before use.

Keep out of reach of children. If medical advice is needed, have product container or label at hand. Close valve after each use and when empty. Use equipment rated for cylinder pressure. Do not open valve until connected to equipment prepared for use. Fusible plugs in top, bottom, or valve melt at 98°C to 107°C (208°F to 224°F). Do not discharge at pressures above 15psig (103kpa). Use a back flow preventative device in the piping. Use only equipment of compatible materials of construction. Approach

suspected leak area with caution.

**Prevention** : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

: Leaking gas fire: Do not extinguish, unless leak can be stopped safely. In case of Response

leakage, eliminate all ignition sources.

: Protect from sunlight. Store in a well-ventilated place. **Storage** 

**Disposal** : Not applicable.

Hazards not otherwise : In addition to any other important health or physical hazards, this product may displace classified

oxygen and cause rapid suffocation.

Date of issue/Date of revision : 6/21/2021 : 11/11/2020 1/11 Version : 2.02 Date of previous issue

### Section 3. Composition/information on ingredients

Substance/mixture : Substance
Chemical name : acetylene

Other means of identification

: Ethyne; Ethine; Narcylen; C2H2; Acetylen; UN 1001; Vinylene

Product code : 001001

#### **CAS** number/other identifiers

**CAS number** : 74-86-2

Ingredient name	%	CAS number
Acetylene	100	74-86-2

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

#### Section 4. First aid measures

#### **Description of necessary first aid measures**

**Eye contact**: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10

minutes. Get medical attention if irritation occurs.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If

not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical

attention immediately. Maintain an open airway. Loosen tight clothing such as a collar,

tie, belt or waistband.

**Skin contact**: Flush contaminated skin with plenty of water. Remove contaminated clothing and

shoes. To avoid the risk of static discharges and gas ignition, soak contaminated clothing thoroughly with water before removing it. Get medical attention if symptoms

occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Ingestion**: As this product is a gas, refer to the inhalation section.

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

**Eye contact**: Contact with rapidly expanding gas may cause burns or frostbite.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact**: Contact with rapidly expanding gas may cause burns or frostbite.

Frostbite : Try to warm up the frozen tissues and seek medical attention.

**Ingestion** : As this product is a gas, refer to the inhalation section.

#### **Over-exposure signs/symptoms**

Eye contact : No specific data.
Inhalation : No specific data.
Skin contact : No specific data.
Ingestion : No specific data.

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments**: No specific treatment.

Date of issue/Date of revision : 6/21/2021 Date of previous issue : 11/11/2020 Version : 2.02 2/11

### Section 4. First aid measures

**Protection of first-aiders** 

: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

### Section 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media

: None known.

Specific hazards arising from the chemical

: Contains gas under pressure. Extremely flammable gas. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

Hazardous thermal decomposition products

: Decomposition products may include the following materials: carbon dioxide carbon monoxide

**Special protective actions for fire-fighters** 

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Contact supplier immediately for specialist advice. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. If involved in fire, shut off flow immediately if it can be done without risk. If this is impossible, withdraw from area and allow fire to burn. Fight fire from protected location or maximum possible distance. Eliminate all ignition sources if safe to do so.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: Accidental releases pose a serious fire or explosion hazard. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing gas. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** 

: Ensure emergency procedures to deal with accidental gas releases are in place to avoid contamination of the environment. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### Methods and materials for containment and cleaning up

**Small spill** 

: Immediately contact emergency personnel. Stop leak if without risk. Use spark-proof tools and explosion-proof equipment.

Large spill

: Immediately contact emergency personnel. Stop leak if without risk. Use spark-proof tools and explosion-proof equipment. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Date of issue/Date of revision : 6/21/2021 Date of previous issue : 11/11/2020 Version : 2.02 3/11

### Section 7. Handling and storage

#### **Precautions for safe handling**

#### **Protective measures**

Put on appropriate personal protective equipment (see Section 8). Contains gas under pressure. Avoid breathing gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Do not puncture or incinerate container. Use equipment rated for cylinder pressure. Close valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide, or drop. Use a suitable hand truck for cylinder movement.

Use only non-sparking tools. Avoid contact with eyes, skin and clothing. Empty containers retain product residue and can be hazardous. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment.

# Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

# Conditions for safe storage, including any incompatibilities

: Store in accordance with local regulations. Store in a segregated and approved area. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Eliminate all ignition sources. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Cylinder temperatures should not exceed 52 °C (125 °F). Keep container tightly closed and sealed until ready for use. See Section 10 for incompatible materials before handling or use.

### Section 8. Exposure controls/personal protection

#### **Control parameters**

#### Occupational exposure limits

Ingredient name	Exposure limits
Acetylene	NIOSH REL (United States, 10/2016).  CEIL: 2662 mg/m³  CEIL: 2500 ppm  ACGIH TLV (United States, 3/2019). Oxygen Depletion [Asphyxiant]. Explosive potential.
	California PEL for Chemical Contaminants ( <i>Table AC-1</i> ) (United States). Oxygen Depletion [Asphyxiant].

# Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

# **Environmental exposure** controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### **Individual protection measures**

#### **Hygiene measures**

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Date of issue/Date of revision : 6/21/2021 Date of previous issue : 11/11/2020 Version : 2.02 4/11

### Section 8. Exposure controls/personal protection

#### **Eye/face protection**

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with sideshields.

#### **Skin protection**

**Hand protection** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** 

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

### Section 9. Physical and chemical properties

#### **Appearance**

**Physical state** : Gas. Colorless. Color Odor : Mild. Ethereal. **Odor threshold** : Not available. pН : Not available. : -81°C (-113.8°F) **Melting point Boiling point** : Not available. : 35.25°C (95.5°F) **Critical temperature** 

: Closed cup: -18.15°C (-0.67°F) Flash point

**Evaporation rate** : Not available.

Flammability (solid, gas) : Extremely flammable in the presence of the following materials or conditions: open

flames, sparks and static discharge and oxidizing materials.

Highly flammable in the presence of the following materials or conditions: heat.

Lower and upper explosive

: Lower: 2.5% **Upper: 100%** (flammable) limits Vapor pressure : 635 (psig) Vapor density 0.907 (Air = 1) Specific Volume (ft <sup>3</sup>/lb) : 14.7058

Gas Density (lb/ft 3) : 0.0691

Relative density : Not applicable. **Solubility** : Not available. Solubility in water : 1.2 g/l

Partition coefficient: n-

octanol/water

**Auto-ignition temperature** : 305°C (581°F)

: 0.37

Date of issue/Date of revision : 6/21/2021 : 11/11/2020 Version : 2.02 5/11 Date of previous issue

# Section 9. Physical and chemical properties

Decomposition temperature : Not available.

Viscosity : Not applicable.

Flow time (ISO 2431) : Not available.

Molecular weight : 26.04 g/mole

**Aerosol product** 

Heat of combustion : -48257522 J/kg

### Section 10. Stability and reactivity

**Reactivity**: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** : The product is stable.

Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid** 

: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

Incompatible materials : Oxidizers

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**Hazardous polymerization**: Under normal conditions of storage and use, hazardous polymerization will not occur.

### Section 11. Toxicological information

#### Information on toxicological effects

#### **Acute toxicity**

Not available.

#### **Irritation/Corrosion**

Not available.

#### **Sensitization**

Not available.

#### **Mutagenicity**

Not available.

#### **Carcinogenicity**

Not available.

#### Reproductive toxicity

Not available.

#### **Teratogenicity**

Not available.

#### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Date of issue/Date of revision : 6/21/2021 Date of previous issue : 11/11/2020 Version : 2.02 6/11

# Section 11. Toxicological information

Not available

Information on the likely routes of exposure

: Not available.

#### Potential acute health effects

**Eye contact** : Contact with rapidly expanding gas may cause burns or frostbite.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact** : Contact with rapidly expanding gas may cause burns or frostbite.

**Ingestion**: As this product is a gas, refer to the inhalation section.

#### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

**Long term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

#### Potential chronic health effects

Not available.

General : No known significant effects or critical hazards.
 Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Teratogenicity : No known significant effects or critical hazards.
 Developmental effects : No known significant effects or critical hazards.
 Fertility effects : No known significant effects or critical hazards.

#### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

Not available.

### **Section 12. Ecological information**

#### **Toxicity**

Not available.

#### Persistence and degradability

Not available.

#### **Bioaccumulative potential**

Date of issue/Date of revision : 6/21/2021 Date of previous issue : 11/11/2020 Version : 2.02 7/11

# Section 12. Ecological information

Product/ingredient name	LogPow	BCF	Potential
Acetylene	0.37	-	low

#### **Mobility in soil**

Soil/water partition coefficient (K<sub>oc</sub>)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

### Section 13. Disposal considerations

#### **Disposal methods**

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Empty Airgas-owned pressure vessels should be returned to Airgas. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

### **Section 14. Transport information**

	DOT	TDG	Mexico	IMDG	IATA
UN number	UN1001	UN1001	UN1001	UN1001	UN1001
UN proper shipping name	ACETYLENE, DISSOLVED	ACETYLENE, DISSOLVED	ACETYLENE, DISSOLVED	ACETYLENE, DISSOLVED	ACETYLENE, DISSOLVED
Transport hazard class(es)	2.1	2.1	2.1	2.1	2.1
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.

<sup>&</sup>quot;Refer to CFR 49 (or authority having jurisdiction) to determine the information required for shipment of the product."

#### **Additional information**

**DOT Classification** 

: Limited quantity Yes.

**Quantity limitation** Passenger aircraft/rail: Forbidden. Cargo aircraft: 15 kg.

**TDG Classification** 

: Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.13-2.17 (Class 2).

#### **Explosive Limit and Limited Quantity Index**

0

#### Passenger Carrying Vessel Index

75

#### Passenger Carrying Road or Rail Index

Forbidden

Date of issue/Date of revision : 6/21/2021 Date of previous issue : 11/11/2020 Version : 2.02 8/11

# Section 14. Transport information

**Special provisions** 

38

**IATA** Quantity limitation Passenger and Cargo Aircraft: Forbidden. Cargo Aircraft Only: 15

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in the

event of an accident or spillage.

Transport in bulk according: Not available.

to IMO instruments

### Section 15. Regulatory information

: TSCA 8(a) CDR Exempt/Partial exemption: Not determined U.S. Federal regulations

Clean Air Act (CAA) 112 regulated flammable substances: acetylene

Clean Air Act Section 112

(b) Hazardous Air **Pollutants (HAPs)**  : Not listed

**Clean Air Act Section 602** 

**Class I Substances** 

: Not listed

**Clean Air Act Section 602** 

**Class II Substances** 

: Not listed

**DEA List I Chemicals** 

(Precursor Chemicals)

: Not listed

**DEA List II Chemicals** 

(Essential Chemicals)

: Not listed

**SARA 302/304** 

#### **Composition/information on ingredients**

No products were found.

**SARA 304 RQ** : Not applicable.

**SARA 311/312** 

: Refer to Section 2: Hazards Identification of this SDS for classification of substance. Classification

State regulations

**Massachusetts** : This material is listed. : This material is not listed. **New York** This material is listed. **New Jersey Pennsylvania** : This material is listed.

California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

#### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### **Montreal Protocol**

Not listed.

#### **Stockholm Convention on Persistent Organic Pollutants**

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

Date of issue/Date of revision : 6/21/2021 : 11/11/2020 Version : 2.02 9/11 Date of previous issue

### Section 15. Regulatory information

#### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

**Inventory list** 

Australia : This material is listed or exempted.

Canada : This material is listed or exempted.

China : This material is listed or exempted.

Europe : This material is listed or exempted.

Japan inventory (ENCS): This material is listed or exempted.

Japan inventory (ISHL): Not determined.

New Zealand : This material is listed or exempted.
 Philippines : This material is listed or exempted.
 Republic of Korea : This material is listed or exempted.
 Taiwan : This material is listed or exempted.

Thailand : Not determined.

Turkey : This material is listed or exempted.
United States : This material is active or exempted.
Viet Nam : This material is listed or exempted.

### Section 16. Other information

#### **Hazardous Material Information System (U.S.A.)**



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

#### **National Fire Protection Association (U.S.A.)**



Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

#### Procedure used to derive the classification

Classification	Justification
• •	Expert judgment According to package

### **Section 16. Other information**

**History** 

Date of printing : 6/21/2021 Date of issue/Date of : 6/21/2021

revision

Date of previous issue : 11/11/2020

Version : 2.02

**Key to abbreviations** : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

**References** : Not available.

#### **Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Date of issue/Date of revision : 6/21/2021 Date of previous issue : 11/11/2020 Version : 2.02 11/11

# SAFETY DATA SHEET



#### Argon

### **Section 1. Identification**

**GHS** product identifier

: Argon **Chemical name** : Argon

Other means of identification

: Argon-40; Argon, isotope of mass 40; 40Ar; ARGON; Argon, Welding Quality; ARGON,

**COMPRESSED** 

**Product type** : Gas.

**Product use** : Synthetic/Analytical chemistry.

**Synonym** : Argon-40; Argon, isotope of mass 40; 40Ar; ARGON; Argon, Welding Quality; ARGON,

**COMPRESSED** 

SDS# : 001004

Supplier's details : Airgas USA, LLC and its affiliates

259 North Radnor-Chester Road

Suite 100

Radnor, PA 19087-5283

1-610-687-5253

24-hour telephone : 1-866-734-3438

### Section 2. Hazards identification

**OSHA/HCS** status

: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : GASES UNDER PRESSURE - Compressed gas SIMPLE ASPHYXIANTS

**GHS** label elements

**Hazard pictograms** 



Signal word

Warning

**Hazard statements** 

Contains gas under pressure; may explode if heated. May displace oxygen and cause rapid suffocation.

#### **Precautionary statements**

**General** 

: Read and follow all Safety Data Sheets (SDS'S) before use. Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand. Close valve after each use and when empty. Use equipment rated for cylinder pressure. Do not open valve until connected to equipment prepared for use. Use a back flow preventative device in the piping. Use only equipment of compatible

materials of construction.

**Prevention** : Not applicable. : Not applicable. Response

: Protect from sunlight. Store in a well-ventilated place. **Storage** 

**Disposal** : Not applicable.

Supplemental label

elements

: Keep container tightly closed. Use only with adequate ventilation. Do not enter storage areas and confined spaces unless adequately ventilated.

Hazards not otherwise

classified

: In addition to any other important health or physical hazards, this product may displace oxygen and cause rapid suffocation.

Date of issue/Date of revision : 1/5/2021 Date of previous issue Version : 1.05 1/11 : 8/25/2020

### Section 3. Composition/information on ingredients

Substance/mixture : Substance
Chemical name : Argon

Other means of : /identification

: Argon-40; Argon, isotope of mass 40; 40Ar; ARGON; Argon, Welding Quality; ARGON,

COMPRESSED

Product code : 001004

#### **CAS** number/other identifiers

**CAS number** : 7440-37-1

Ingredient name	%	CAS number
Argon	100	7440-37-1

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

#### **Description of necessary first aid measures**

**Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10

minutes. Get medical attention if irritation occurs.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it

is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open

airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and

shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean

shoes thoroughly before reuse.

**Ingestion**: As this product is a gas, refer to the inhalation section.

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

**Eye contact**: Contact with rapidly expanding gas may cause burns or frostbite.

**Inhalation** : No known significant effects or critical hazards. Acts as a simple asphyxiant.

Skin contactContact with rapidly expanding gas may cause burns or frostbite.FrostbiteTry to warm up the frozen tissues and seek medical attention.

**Ingestion**: As this product is a gas, refer to the inhalation section.

#### **Over-exposure signs/symptoms**

Eye contact : No specific data.
Inhalation : No specific data.
Skin contact : No specific data.
Ingestion : No specific data.

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments**: No specific treatment.

Date of issue/Date of revision : 1/5/2021 Date of previous issue : 8/25/2020 Version : 1.05 2/11

### Section 4. First aid measures

#### **Protection of first-aiders**

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

#### See toxicological information (Section 11)

### **Section 5. Fire-fighting measures**

#### **Extinguishing media**

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media

: None known.

Specific hazards arising from the chemical

Hazardous thermal decomposition products

: Contains gas under pressure. In a fire or if heated, a pressure increase will occur and the container may burst or explode.

: No specific data.

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Contact supplier immediately for specialist advice. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Avoid breathing gas. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** 

: Ensure emergency procedures to deal with accidental gas releases are in place to avoid contamination of the environment. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### Methods and materials for containment and cleaning up

Small spill

: Immediately contact emergency personnel. Stop leak if without risk.

Large spill

: Immediately contact emergency personnel. Stop leak if without risk. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### Section 7. Handling and storage

#### **Precautions for safe handling**

Date of issue/Date of revision : 1/5/2021 Date of previous issue : 8/25/2020 Version : 1.05 3/11

## Section 7. Handling and storage

#### **Protective measures**

: Put on appropriate personal protective equipment (see Section 8). Contains gas under pressure. Avoid breathing gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not puncture or incinerate container. Use equipment rated for cylinder pressure. Close valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide, or drop. Use a suitable hand truck for cylinder movement.

Avoid contact with eyes, skin and clothing. Empty containers retain product residue and can be hazardous.

#### Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

### including any incompatibilities

Conditions for safe storage, : Store in accordance with local regulations. Store in a segregated and approved area. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Cylinder temperatures should not exceed 52 °C (125 °F). Keep container tightly closed and sealed until ready for use. See Section 10 for incompatible materials before handling or use.

### Section 8. Exposure controls/personal protection

#### Control parameters

#### **Occupational exposure limits**

Ingredient name	Exposure limits
	ACGIH TLV (United States, 3/2017). Oxygen Depletion [Asphyxiant].

#### **Appropriate engineering** controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

#### **Environmental exposure** controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### **Individual protection measures**

#### **Hygiene measures**

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### **Eye/face protection**

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with sideshields.

#### **Skin protection Hand protection**

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Date of issue/Date of revision : 1/5/2021 : 8/25/2020 Version: 1.05 Date of previous issue

### Section 8. Exposure controls/personal protection

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: The gas can cause asphyxiation without warning by replacing the oxygen in the air. Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. If operating conditions cause high gas concentrations to be produced or any recommended or statutory exposure limit is exceeded, use an air-fed respirator or self-contained breathing apparatus. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

### Section 9. Physical and chemical properties

**Appearance** 

Physical state : Gas.
Color : Colorless.
Odor : Odorless.
Odor threshold : Not available.
PH : Not available.

 Melting point
 : -189.2°C (-308.6°F)

 Boiling point
 : -185.9°C (-302.6°F)

 Critical temperature
 : -122.4°C (-188.3°F)

Flash point : [Product does not sustain combustion.]

Evaporation rate : Not available.
Flammability (solid, gas) : Not available.
Lower and upper explosive : Not available.

(flammable) limits

Vapor pressure : Not available.
Vapor density : 1.66 (Air = 1)

Specific Volume (ft 3/lb) : 9.7087 Gas Density (lb/ft 3) : 0.103

Relative density : Not applicable.
Solubility : Not available.
Solubility in water : Not available.

Partition coefficient: n-

octanol/water

: 0.74

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Not applicable.

Flow time (ISO 2431) : Not available.

Molecular weight : 39.95 g/mole

Date of issue/Date of revision : 1/5/2021 Date of previous issue : 8/25/2020 Version : 1.05 5/11

### Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** : The product is stable.

**Possibility of hazardous** 

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid** : Do not allow gas to accumulate in low or confined areas.

Incompatible materials : No specific data.

**Hazardous decomposition** products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**Hazardous polymerization** : Under normal conditions of storage and use, hazardous polymerization will not occur.

### **Section 11. Toxicological information**

#### Information on toxicological effects

#### **Acute toxicity**

Not available.

#### **Irritation/Corrosion**

Not available.

#### **Sensitization**

Not available.

#### Mutagenicity

Not available.

#### **Carcinogenicity**

Not available.

#### **Reproductive toxicity**

Not available.

#### **Teratogenicity**

Not available.

#### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Not available.

#### Information on the likely routes of exposure

: Not available.

#### Potential acute health effects

**Eye contact** : Contact with rapidly expanding gas may cause burns or frostbite.

Inhalation : No known significant effects or critical hazards. Acts as a simple asphyxiant.

**Skin contact** : Contact with rapidly expanding gas may cause burns or frostbite.

Date of issue/Date of revision : 1/5/2021 : 8/25/2020 6/11 Date of previous issue Version: 1.05

### **Section 11. Toxicological information**

Ingestion : As this product is a gas, refer to the inhalation section.

#### Symptoms related to the physical, chemical and toxicological characteristics

: No specific data. **Eye contact** Inhalation : No specific data. **Skin contact** : No specific data. Ingestion : No specific data.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

**Potential immediate** 

: Not available.

effects

**Potential delayed effects** : Not available.

**Long term exposure** 

**Potential immediate** 

: Not available.

effects

**Potential delayed effects** : Not available.

#### Potential chronic health effects

Not available.

General : No known significant effects or critical hazards. Carcinogenicity : No known significant effects or critical hazards. Mutagenicity : No known significant effects or critical hazards. : No known significant effects or critical hazards. **Teratogenicity Developmental effects** : No known significant effects or critical hazards. **Fertility effects** : No known significant effects or critical hazards.

#### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

Not available.

### Section 12. Ecological information

#### **Toxicity**

Not available.

#### Persistence and degradability

Not available.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Argon	0.74	-	low

#### **Mobility in soil**

Soil/water partition : Not available. coefficient (Koc)

Other adverse effects : No known significant effects or critical hazards.

Date of issue/Date of revision Version : 1.05 7/11 : 1/5/2021 : 8/25/2020 Date of previous issue

### Section 13. Disposal considerations

#### **Disposal methods**

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Empty Airgas-owned pressure vessels should be returned to Airgas. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

## **Section 14. Transport information**

	DOT	TDG	Mexico	IMDG	IATA
UN number	UN1006	UN1006	UN1006	UN1006	UN1006
UN proper shipping name	ARGON, COMPRESSED	ARGON, COMPRESSED	ARGON, COMPRESSED	ARGON, COMPRESSED	ARGON, COMPRESSED
Transport hazard class(es)	2.2	2.2	2.2	2.2	2.2
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.

<sup>&</sup>quot;Refer to CFR 49 (or authority having jurisdiction) to determine the information required for shipment of the product."

**Additional information** 

**DOT Classification** : Limited quantity

**TDG Classification** : Product classified as per the following sections of the Transportation of Dangerous

Goods Regulations: 2.13-2.17 (Class 2).

**Explosive Limit and Limited Quantity Index** 0.125

Passenger Carrying Road or Rail Index 75

Special provisions 42

**IATA** : Quantity limitation No

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in the

event of an accident or spillage.

Transport in bulk according: Not available.

to IMO instruments

### Section 15. Regulatory information

U.S. Federal regulations : TSCA 8(a) CDR Exempt/Partial exemption: This material is listed or exempted.

Clean Air Act Section 112

(b) Hazardous Air **Pollutants (HAPs)**  : Not listed

Date of issue/Date of revision : 1/5/2021 : 8/25/2020 Version: 1.05 8/11 Date of previous issue

Argon

# Section 15. Regulatory information

**Clean Air Act Section 602** 

**Class I Substances** 

Not listed

**Clean Air Act Section 602** 

Olean II Outstand

: Not listed

**Class II Substances** 

**DEA List I Chemicals** 

: Not listed

(Precursor Chemicals)

DEA List II Chemicals

: Not listed

(Essential Chemicals)

**SARA 302/304** 

### **Composition/information on ingredients**

No products were found.

SARA 304 RQ : Not applicable.

**SARA 311/312** 

**Classification**: Refer to Section 2: Hazards Identification of this SDS for classification of substance.

**State regulations** 

Massachusetts: This material is listed.New York: This material is not listed.New Jersey: This material is listed.Pennsylvania: This material is listed.

**International regulations** 

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

**Montreal Protocol** 

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

**Rotterdam Convention on Prior Informed Consent (PIC)** 

Not listed.

### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

**Inventory list** 

Australia : This material is listed or exempted.

Canada : This material is listed or exempted.

China : This material is listed or exempted.

Europe : This material is listed or exempted.

Japan : Japan inventory (ENCS): Not determined.
Japan inventory (ISHL): Not determined.

New Zealand : This material is listed or exempted.
 Philippines : This material is listed or exempted.
 Republic of Korea : This material is listed or exempted.
 Taiwan : This material is listed or exempted.

Thailand : Not determined.

Turkey : Not determined.

**United States**: This material is listed or exempted.

Viet Nam : Not determined.

Date of issue/Date of revision : 1/5/2021 Date of previous issue : 8/25/2020 Version : 1.05 9/11

Argon

# Section 16. Other information

### **Hazardous Material Information System (U.S.A.)**



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

### **National Fire Protection Association (U.S.A.)**



Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

### Procedure used to derive the classification

Classification	Justification
, · · · · ·	Expert judgment Expert judgment

### **History**

Date of printing : 1/5/2021

Date of issue/Date of : 1/5/2021

revision

Date of previous issue : 8/25/2020 Version : 1.05

**Key to abbreviations** : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

References : Not available.

**Notice to reader** 

Date of issue/Date of revision : 1/5/2021 Date of previous issue : 8/25/2020 Version : 1.05 10/11

Argon

# **Section 16. Other information**

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Date of issue/Date of revision : 1/5/2021 Date of previous issue : 8/25/2020 Version : 1.05 11/11

# **SAFETY DATA SHEET**



### Nitrogen

# **Section 1. Identification**

GHS product identifier : Nitrogen Chemical name : nitrogen

Other means of identification

nitrogen (dot); nitrogen gas; Nitrogen NF, Nitrogen FG

Product type : Gas.

Product use : Synthetic/Analytical chemistry.

**Synonym**: nitrogen (dot); nitrogen gas; Nitrogen NF, Nitrogen FG

**SDS #** : 001040

Supplier's details : Airgas USA, LLC and its affiliates

259 North Radnor-Chester Road

Suite 100

Radnor, PA 19087-5283

1-610-687-5253

**24-hour telephone** : 1-866-734-3438

# Section 2. Hazards identification

OSHA/HCS status : This

: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

: GASES UNDER PRESSURE - Compressed gas

SIMPLE ASPHYXIANTS

### **GHS label elements**

Hazard pictograms



Signal word : Warning

**Hazard statements** : Contains gas under pressure; may explode if heated. May displace oxygen and cause rapid suffocation.

May displace oxygen and cause rapid suffocation.

# **Precautionary statements**

General : Read and follow all Safety Data Sheets (SDS'S) before use. Read label before use.

Keep out of reach of children. If medical advice is needed, have product container or label at hand. Close valve after each use and when empty. Use equipment rated for cylinder pressure. Do not open valve until connected to equipment prepared for use. Use a back flow preventative device in the piping. Use only equipment of compatible

materials of construction.

Prevention: Not applicable.Response: Not applicable.

**Storage**: Protect from sunlight. Store in a well-ventilated place.

Disposal : Not applicable.

Supplemental label

elements

: Keep container tightly closed. Use only with adequate ventilation. Do not enter storage areas and confined spaces unless adequately ventilated.

Hazards not otherwise

classified

: In addition to any other important health or physical hazards, this product may displace oxygen and cause rapid suffocation.

Date of issue/Date of revision : 8/31/2021 Date of previous issue : 4/30/2019 Version : 1.04 1/11

# Section 3. Composition/information on ingredients

Substance/mixture : Substance
Chemical name : nitrogen

Other means of identification

: nitrogen (dot); nitrogen gas; Nitrogen NF, Nitrogen FG

Product code : 001040

### **CAS** number/other identifiers

**CAS number** : 7727-37-9

Ingredient name	%	CAS number
Nitrogen	100	7727-37-9

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

# Section 4. First aid measures

### **Description of necessary first aid measures**

**Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10

minutes. Get medical attention if irritation occurs.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it

is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed

person may need to be kept under medical surveillance for 48 hours.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and

shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean

shoes thoroughly before reuse.

**Ingestion**: As this product is a gas, refer to the inhalation section.

# Most important symptoms/effects, acute and delayed

### Potential acute health effects

**Eye contact**: Contact with rapidly expanding gas may cause burns or frostbite.

**Inhalation** : At very high concentrations, can displace the normal air and cause suffocation from lack

of oxygen.

**Skin contact** : Contact with rapidly expanding gas may cause burns or frostbite.

Frostbite : Try to warm up the frozen tissues and seek medical attention.

Ingestion : As this product is a gas, refer to the inhalation section.

### **Over-exposure signs/symptoms**

Eye contact : No specific data.
Inhalation : No specific data.
Skin contact : No specific data.
Ingestion : No specific data.

### Indication of immediate medical attention and special treatment needed, if necessary

Date of issue/Date of revision : 8/31/2021 Date of previous issue : 4/30/2019 Version : 1.04 2/11

# Section 4. First aid measures

Notes to physician

: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments Protection of first-aiders** 

- : No specific treatment.
- : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

### **Extinguishing media**

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing** media

: None known.

Specific hazards arising from the chemical

**Hazardous thermal** decomposition products : Contains gas under pressure. In a fire or if heated, a pressure increase will occur and the container may burst or explode.

: Decomposition products may include the following materials: nitrogen oxides

**Special protective actions** for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Contact supplier immediately for specialist advice. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool

**Special protective** equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

# Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Avoid breathing gas. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

**Environmental precautions** 

: Ensure emergency procedures to deal with accidental gas releases are in place to avoid contamination of the environment. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

**Small spill** Large spill

- : Immediately contact emergency personnel. Stop leak if without risk.
- Immediately contact emergency personnel. Stop leak if without risk. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Date of issue/Date of revision : 4/30/2019 : 8/31/2021 Version: 1.04 3/11 Date of previous issue

# Section 7. Handling and storage

### **Precautions for safe handling**

#### **Protective measures**

Put on appropriate personal protective equipment (see Section 8). Contains gas under pressure. Avoid breathing gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not puncture or incinerate container. Use equipment rated for cylinder pressure. Close valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide, or drop. Use a suitable hand truck for cylinder movement.

Avoid contact with eyes, skin and clothing. Empty containers retain product residue and can be hazardous.

# Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

# Conditions for safe storage, including any incompatibilities

: Store in accordance with local regulations. Store in a segregated and approved area. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Cylinder temperatures should not exceed 52 °C (125 °F). Keep container tightly closed and sealed until ready for use. See Section 10 for incompatible materials before handling or use.

# Section 8. Exposure controls/personal protection

### **Control parameters**

**Occupational exposure limits** 

Ingredient name	Exposure limits	
	ACGIH TLV (United States, 3/2019). Oxygen Depletion [Asphyxiant].	

# Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

# **Environmental exposure** controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### **Individual protection measures**

#### **Hygiene measures**

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

# **Eye/face protection**

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with sideshields.

### **Skin protection**

**Hand protection** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Date of issue/Date of revision : 8/31/2021 Date of previous issue : 4/30/2019 Version : 1.04 4/11

# Section 8. Exposure controls/personal protection

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** 

: The gas can cause asphyxiation without warning by replacing the oxygen in the air. Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. If operating conditions cause high gas concentrations to be produced or any recommended or statutory exposure limit is exceeded, use an air-fed respirator or self-contained breathing apparatus. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

# Section 9. Physical and chemical properties

**Appearance** 

Physical state : Gas. [Compressed gas.]

Color : Colorless.

Odor : Odorless.

Odor threshold : Not available.

pH : Not available.

Melting point : -210.01°C (-346°F)

 Melting point
 : -210.01°C (-346°F)

 Boiling point
 : -196°C (-320.8°F)

 Critical temperature
 : -146.95°C (-232.5°F)

Flash point : [Product does not sustain combustion.]

Evaporation rate : Not available.
Flammability (solid, gas) : Not available.
Lower and upper explosive : Not available.

(flammable) limits

Vapor pressure : Not available.

**Vapor density** : 0.967 (Air = 1) Liquid Density@BP: 50.46 lb/ft3 (808.3 kg/m3)

**Specific Volume (ft** <sup>3</sup>/**lb)** : 13.8889 **Gas Density (lb/ft** <sup>3</sup>) : 0.072

Relative density : Not applicable.
Solubility : Not available.
Solubility in water : Not available.

Partition coefficient: n-

octanol/water

: 0.67

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Not applicable.

Flow time (ISO 2431) : Not available.

Molecular weight : 28.02 g/mole

Date of issue/Date of revision : 8/31/2021 Date of previous issue : 4/30/2019 Version : 1.04 5/11

# Section 10. Stability and reactivity

**Reactivity**: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability**: The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid** : Do not allow gas to accumulate in low or confined areas.

Incompatible materials : No specific data.

**Hazardous decomposition** 

products

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

**Hazardous polymerization**: Under normal conditions of storage and use, hazardous polymerization will not occur.

# **Section 11. Toxicological information**

# Information on toxicological effects

### **Acute toxicity**

Not available.

### **Irritation/Corrosion**

Not available.

### **Sensitization**

Not available.

### **Mutagenicity**

Not available.

### **Carcinogenicity**

Not available.

### **Reproductive toxicity**

Not available.

#### **Teratogenicity**

Not available.

# Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

# **Aspiration hazard**

Not available.

# Information on the likely routes of exposure

: Not available.

### Potential acute health effects

Eye contact

: Contact with rapidly expanding gas may cause burns or frostbite.

**Inhalation** : At very high concentrations, can displace the normal air and cause suffocation from lack of oxygen.

Date of issue/Date of revision : 8/31/2021 Date of previous issue : 4/30/2019 Version : 1.04 6/11

# Section 11. Toxicological information

**Skin contact**: Contact with rapidly expanding gas may cause burns or frostbite.

**Ingestion**: As this product is a gas, refer to the inhalation section.

### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.
Inhalation : No specific data.
Skin contact : No specific data.
Ingestion : No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

**Long term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

### Potential chronic health effects

Not available.

General : No known significant effects or critical hazards.
 Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Teratogenicity : No known significant effects or critical hazards.
 Developmental effects : No known significant effects or critical hazards.
 Fertility effects : No known significant effects or critical hazards.

# **Numerical measures of toxicity**

# **Acute toxicity estimates**

Not available.

# **Section 12. Ecological information**

#### **Toxicity**

Not available.

# Persistence and degradability

Not available.

### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Nitrogen	0.67	-	low

# **Mobility in soil**

Soil/water partition : Not available. coefficient (K<sub>oc</sub>)

# Section 12. Ecological information

Other adverse effects

: No known significant effects or critical hazards.

# Section 13. Disposal considerations

# **Disposal methods**

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Empty Airgas-owned pressure vessels should be returned to Airgas. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate

# **Section 14. Transport information**

	DOT	TDG	Mexico	IMDG	IATA
UN number	UN1066	UN1066	UN1066	UN1066	UN1066
UN proper shipping name	NITROGEN, COMPRESSED	NITROGEN, COMPRESSED	NITROGEN, COMPRESSED	NITROGEN, COMPRESSED	NITROGEN, COMPRESSED
Transport hazard class(es)	2.2	2.2	2.2	2.2	2.2
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.

<sup>&</sup>quot;Refer to CFR 49 (or authority having jurisdiction) to determine the information required for shipment of the product."

**Additional information** 

**DOT Classification** : Limited quantity Yes.

Quantity limitation Passenger aircraft/rail: 75 kg. Cargo aircraft: 150 kg.

**TDG Classification** : Product classified as per the following sections of the Transportation of Dangerous

Goods Regulations: 2.13-2.17 (Class 2).

**Explosive Limit and Limited Quantity Index** 0.125

Passenger Carrying Road or Rail Index 75

**IATA** : Quantity limitation Passenger and Cargo Aircraft: 75 kg. Cargo Aircraft Only: 150 kg.

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in the

event of an accident or spillage.

Transport in bulk according: Not available.

to IMO instruments

Date of issue/Date of revision : 8/31/2021 : 4/30/2019 Version: 1.04 8/11 Date of previous issue

# Section 15. Regulatory information

U.S. Federal regulations : TSCA 8(a) CDR Exempt/Partial exemption: This material is listed or exempted.

Clean Air Act Section 112

(b) Hazardous Air Pollutants (HAPs)

: Not listed

Clean Air Act Section 602

**Class I Substances** 

: Not listed

Clean Air Act Section 602

**Class II Substances** 

: Not listed

**DEA List I Chemicals** 

(Precursor Chemicals)

: Not listed

**DEA List II Chemicals** 

(Essential Chemicals)

: Not listed

**SARA 302/304** 

### **Composition/information on ingredients**

No products were found.

SARA 304 RQ : Not applicable.

**SARA 311/312** 

Classification : Refer to Section 2: Hazards Identification of this SDS for classification of substance.

**State regulations** 

Massachusetts: This material is listed.New York: This material is not listed.New Jersey: This material is listed.Pennsylvania: This material is listed.

California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

### International regulations

### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

### **Montreal Protocol**

Not listed.

#### **Stockholm Convention on Persistent Organic Pollutants**

Not listed.

### **Rotterdam Convention on Prior Informed Consent (PIC)**

Not listed.

### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

### **Inventory list**

Australia : This material is listed or exempted.

Canada : This material is listed or exempted.

China : This material is listed or exempted.

Europe : This material is listed or exempted.

Japan : Japan inventory (ENCS): Not determined.

Japan inventory (ISHL): Not determined.

New Zealand : This material is listed or exempted.

Philippines : This material is listed or exempted.

Date of issue/Date of revision : 8/31/2021 Date of previous issue : 4/30/2019 Version : 1.04 9/11

# Section 15. Regulatory information

Republic of Korea : This material is listed or exempted.

Taiwan : This material is listed or exempted.

Thailand : Not determined.
Turkey : Not determined.

United States : This material is active or exempted.Viet Nam : This material is listed or exempted.

# Section 16. Other information

### **Hazardous Material Information System (U.S.A.)**



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

### **National Fire Protection Association (U.S.A.)**



Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

### Procedure used to derive the classification

Classification	Justification
, , ,	Expert judgment Expert judgment

#### **History**

Date of printing : 8/31/2021

Date of issue/Date of : 8/31/2021

revision

Date of previous issue : 4/30/2019 Version : 1.04

Key to abbreviations : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

Date of issue/Date of revision : 8/31/2021 Date of previous issue : 4/30/2019 Version : 1.04 10/11

# Section 16. Other information

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

**References**: Not available.

### **Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Date of issue/Date of revision : 8/31/2021 Date of previous issue : 4/30/2019 Version : 1.04 11/11

# **SAFETY DATA SHEET**



### Oxygen

# **Section 1. Identification**

**GHS** product identifier

: Oxygen : oxygen

Chemical name
Other means of

 Molecular oxygen; Oxygen molecule; Pure oxygen; O2; UN 1072; Dioxygen; Oxygen USP, Aviator's Breathing Oxygen (ABO)

identification
Product type

: Gas.

**Product use** 

: Synthetic/Analytical chemistry.

**Synonym** 

SDS#

: Molecular oxygen; Oxygen molecule; Pure oxygen; O2; UN 1072; Dioxygen; Oxygen USP, Aviator's Breathing Oxygen (ABO)

: 001043

Supplier's details

: Airgas USA, LLC and its affiliates 259 North Radnor-Chester Road

Suite 100

Radnor, PA 19087-5283

1-610-687-5253

24-hour telephone

: 1-866-734-3438

# Section 2. Hazards identification

**OSHA/HCS** status

: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

: OXIDIZING GASES - Category 1

GASES UNDER PRESSURE - Compressed gas

#### **GHS** label elements

**Hazard pictograms** 





Signal word

: Danger

**Hazard statements** 

: May cause or intensify fire; oxidizer. Contains gas under pressure; may explode if heated.

#### **Precautionary statements**

**General** 

: Read and follow all Safety Data Sheets (SDS'S) before use. Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand. Close valve after each use and when empty. Use equipment rated for cylinder pressure. Do not open valve until connected to equipment prepared for use. Use a back flow preventative device in the piping. Use only equipment of compatible materials of construction. Open valve slowly. Use only with equipment cleaned for Oxygen service.

**Prevention** 

: Keep away from clothing and other combustible materials. Keep reduction valves, valves and fittings free from oil and grease.

Response

: In case of fire: Stop leak if safe to do so.

**Storage** 

: Protect from sunlight. Store in a well-ventilated place.

Disposal

: Not applicable.

Hazards not otherwise

.. .

classified

: None known.

Date of issue/Date of revision : 9/22/2020 Date of previous issue : 2/3/2018 Version : 1 1/11

# Section 3. Composition/information on ingredients

: Substance Substance/mixture Chemical name : oxygen

Other means of : Molecular oxygen; Oxygen molecule; Pure oxygen; O2; UN 1072; Dioxygen; Oxygen identification

USP, Aviator's Breathing Oxygen (ABO)

**Product code** : 001043

### **CAS** number/other identifiers

**CAS** number 7782-44-7

Ingredient name	%	CAS number
oxygen	100	7782-44-7

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

# Section 4. First aid measures

### **Description of necessary first aid measures**

**Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower

eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10

minutes. Get medical attention.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If

> not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical

attention immediately. Maintain an open airway. Loosen tight clothing such as a collar,

tie. belt or waistband.

**Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and

shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean

shoes thoroughly before reuse.

Ingestion : As this product is a gas, refer to the inhalation section.

### Most important symptoms/effects, acute and delayed

### Potential acute health effects

**Eye contact** : Contact with rapidly expanding gas may cause burns or frostbite.

Inhalation : No known significant effects or critical hazards.

**Skin contact** : Contact with rapidly expanding gas may cause burns or frostbite. **Frostbite** : Try to warm up the frozen tissues and seek medical attention.

Ingestion : As this product is a gas, refer to the inhalation section.

### **Over-exposure signs/symptoms**

Eye contact : No specific data. Inhalation : No specific data. Skin contact : No specific data. : No specific data. Ingestion

### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments** : No specific treatment.

2/11 Date of issue/Date of revision : 9/22/2020 : 2/3/2018 Version: 1 Date of previous issue

# Section 4. First aid measures

**Protection of first-aiders** 

: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

### **Extinguishing media**

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media

: None known.

Specific hazards arising from the chemical

: Contains gas under pressure. Oxidizing material. This material increases the risk of fire and may aid combustion. Contact with combustible material may cause fire. In a fire or if heated, a pressure increase will occur and the container may burst or explode.

Hazardous thermal decomposition products

: No specific data.

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Contact supplier immediately for specialist advice. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. If involved in fire, shut off flow immediately if it can be done without risk.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

# Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing gas. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** 

: Ensure emergency procedures to deal with accidental gas releases are in place to avoid contamination of the environment. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

**Small spill** 

: Immediately contact emergency personnel. Stop leak if without risk. Use spark-proof tools and explosion-proof equipment.

Large spill

: Immediately contact emergency personnel. Stop leak if without risk. Use spark-proof tools and explosion-proof equipment. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

**Precautions for safe handling** 

Date of issue/Date of revision : 9/22/2020 Date of previous issue : 2/3/2018 Version : 1 3/11

# Section 7. Handling and storage

#### **Protective measures**

: Put on appropriate personal protective equipment (see Section 8). Contains gas under pressure. Avoid breathing gas. Do not puncture or incinerate container. Use equipment rated for cylinder pressure. Close valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide, or drop. Use a suitable hand truck for cylinder movement.

Avoid contact with eyes, skin and clothing. Empty containers retain product residue and can be hazardous. Keep away from clothing, incompatible materials and combustible materials. Keep reduction valves free from grease and oil.

# Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

# Conditions for safe storage, including any incompatibilities

: Store in accordance with local regulations. Store in a segregated and approved area. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Cylinder temperatures should not exceed 52 °C (125 °F). Separate from reducing agents and combustible materials. Store away from grease and oil. Keep container tightly closed and sealed until ready for use. See Section 10 for incompatible materials before handling or use.

# Section 8. Exposure controls/personal protection

### **Control parameters**

**Occupational exposure limits** 

Ingredient name	Exposure limits
oxygen	None.

# Appropriate engineering controls

# **Environmental exposure** controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### **Individual protection measures**

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

### **Eye/face protection**

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with sideshields.

# Skin protection Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Date of issue/Date of revision : 9/22/2020 Date of previous issue : 2/3/2018 Version : 1 4/11

# Section 8. Exposure controls/personal protection

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

# Section 9. Physical and chemical properties

**Appearance** 

Physical state : Gas. [Compressed gas.]

Color : Colorless. Blue.

Odor : Odorless.
Odor threshold : Not available.
pH : Not available.

 Melting point
 : -218.4°C (-361.1°F)

 Boiling point
 : -183°C (-297.4°F)

 Critical temperature
 : -118.15°C (-180.7°F)

Flash point : [Product does not sustain combustion.]

**Evaporation rate** : Not available.

Flammability (solid, gas) : Extremely flammable in the presence of the following materials or conditions: reducing

materials, combustible materials and organic materials.

Lower and upper explosive

(flammable) limits

: Not available.

Vapor pressure: Not available.Vapor density: 1.1 (Air = 1)Specific Volume (ft ³/lb): 12.0482Gas Density (lb/ft ³): 0.083

Relative density : Not applicable.

Solubility : Not available.

Solubility in water : Not available.

Partition coefficient: n-

octanol/water

: 0.65

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Not applicable.

Flow time (ISO 2431) : Not available.

Molecular weight : 32 g/mole

# Section 10. Stability and reactivity

**Reactivity**: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability**: The product is stable.

Possibility of hazardous reactions

: Hazardous reactions or instability may occur under certain conditions of storage or use.

Conditions may include the following: contact with combustible materials Reactions may include the following:

risk of causing fire

Date of issue/Date of revision : 9/22/2020 Date of previous issue : 2/3/2018 Version : 1 5/11

# Section 10. Stability and reactivity

**Conditions to avoid** 

: No specific data.

Incompatible materials

: Highly reactive or incompatible with the following materials: combustible materials

reducing materials

grease oil

Hazardous decomposition

products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**Hazardous polymerization**: Under normal conditions of storage and use, hazardous polymerization will not occur.

# Section 11. Toxicological information

# Information on toxicological effects

### **Acute toxicity**

Not available.

### **Irritation/Corrosion**

Not available.

#### **Sensitization**

Not available.

### **Mutagenicity**

Not available.

# **Carcinogenicity**

Not available.

### Reproductive toxicity

Not available.

# **Teratogenicity**

Not available.

### Specific target organ toxicity (single exposure)

Not available.

# Specific target organ toxicity (repeated exposure)

Not available.

# **Aspiration hazard**

Not available.

# Information on the likely

routes of exposure

: Not available.

### Potential acute health effects

Eye contact

: Contact with rapidly expanding gas may cause burns or frostbite.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact**: Contact with rapidly expanding gas may cause burns or frostbite.

**Ingestion**: As this product is a gas, refer to the inhalation section.

### Symptoms related to the physical, chemical and toxicological characteristics

Date of issue/Date of revision : 9/22/2020 Date of previous issue : 2/3/2018 Version : 1 6/11

# **Section 11. Toxicological information**

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

### **Short term exposure**

Potential immediate

effects

: Not available.

Potential delayed effects : 1

: Not available.

**Long term exposure** 

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

#### Potential chronic health effects

Not available.

General : No known significant effects or critical hazards.
 Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Teratogenicity : No known significant effects or critical hazards.
 Developmental effects : No known significant effects or critical hazards.
 Fertility effects : No known significant effects or critical hazards.

### **Numerical measures of toxicity**

# **Acute toxicity estimates**

Not available.

# **Section 12. Ecological information**

### **Toxicity**

Not available.

# Persistence and degradability

Not available.

### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
oxygen	0.65	-	low

### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects : No known significant effects or critical hazards.

Date of issue/Date of revision : 9/22/2020 Date of previous issue : 2/3/2018 Version : 1 7/11

# Section 13. Disposal considerations

### **Disposal methods**

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Empty Airgas-owned pressure vessels should be returned to Airgas. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

# **Section 14. Transport information**

	DOT	TDG	Mexico	IMDG	IATA
UN number	UN1072	UN1072	UN1072	UN1072	UN1072
UN proper shipping name	OXYGEN, COMPRESSED	OXYGEN, COMPRESSED	OXYGEN, COMPRESSED	OXYGEN, COMPRESSED	OXYGEN, COMPRESSED
Transport hazard class(es)	2.2 (5.1)	2.2	2.2 (5.1)	2.2 (5.1)	2.2 (5.1)
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.

<sup>&</sup>quot;Refer to CFR 49 (or authority having jurisdiction) to determine the information required for shipment of the product."

**Additional information** 

**DOT Classification Limited quantity** Yes.

**Quantity limitation** Passenger aircraft/rail: 75 kg. Cargo aircraft: 150 kg.

**Special provisions** A52

**TDG Classification** : Product classified as per the following sections of the Transportation of Dangerous

Goods Regulations: 2.13-2.17 (Class 2), 2.23-2.25 (Class 5).

**Explosive Limit and Limited Quantity Index 0.125** 

**ERAP Index 3000** 

Passenger Carrying Vessel Index 50 Passenger Carrying Road or Rail Index 75

Special provisions 42

**IATA** Quantity limitation Passenger and Cargo Aircraft: 75 kg. Cargo Aircraft Only: 150 kg.

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in the

event of an accident or spillage.

Transport in bulk according: Not available.

to IMO instruments

Date of issue/Date of revision Date of previous issue 8/11 : 9/22/2020 : 2/3/2018 Version:1

# Section 15. Regulatory information

U.S. Federal regulations : TSCA 8(a) CDR Exempt/Partial exemption: This material is listed or exempted.

Clean Air Act Section 112

(b) Hazardous Air Pollutants (HAPs)

: Not listed

**Clean Air Act Section 602** 

**Class I Substances** 

: Not listed

**Clean Air Act Section 602** 

Class II Substances

: Not listed

DEA List I Chemicals

(Precursor Chemicals)

: Not listed

DEA List II Chemicals

: Not listed

(Essential Chemicals)

**SARA 302/304** 

**Composition/information on ingredients** 

No products were found.

SARA 304 RQ : Not applicable.

**SARA 311/312** 

Classification : Refer to Section 2: Hazards Identification of this SDS for classification of substance.

**State regulations** 

Massachusetts: This material is listed.New York: This material is not listed.New Jersey: This material is listed.Pennsylvania: This material is listed.

California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

### International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

**Montreal Protocol** 

Not listed.

**Stockholm Convention on Persistent Organic Pollutants** 

Not listed.

**Rotterdam Convention on Prior Informed Consent (PIC)** 

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals** 

Not listed.

**Inventory list** 

Australia : This material is listed or exempted.

Canada : This material is listed or exempted.

China : This material is listed or exempted.

Europe : This material is listed or exempted.

Japan : Japan inventory (ENCS): Not determined.

Japan inventory (ISHL): Not determined.

New Zealand : This material is listed or exempted.
Philippines : This material is listed or exempted.

Date of issue/Date of revision : 9/22/2020 Date of previous issue : 2/3/2018 Version : 1 9/11

# Section 15. Regulatory information

Republic of Korea : This material is listed or exempted.

Taiwan : This material is listed or exempted.

Thailand : Not determined.
Turkey : Not determined.

United States : This material is active or exempted.Viet Nam : This material is listed or exempted.

# Section 16. Other information

### **Hazardous Material Information System (U.S.A.)**



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

### **National Fire Protection Association (U.S.A.)**



Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

### Procedure used to derive the classification

Classification	Justification
	Expert judgment According to package

#### **History**

Date of printing : 9/22/2020 Date of issue/Date of : 9/22/2020

revision

Date of previous issue : 2/3/2018

Version : 1

**Key to abbreviations** : ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

Date of issue/Date of revision : 9/22/2020 Date of previous issue : 2/3/2018 Version : 1 10/11

# Section 16. Other information

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

References : Not available.

### **Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Date of issue/Date of revision : 9/22/2020 Date of previous issue : 2/3/2018 Version : 1 11/11



### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 10/4/2023 Revision date: 10/4/2023 Version: 1.0

### **SECTION 1: Identification**

### 1.1. Identification

Product form : Mixture

Product name : S-480 Armstrong Commercial Floor Polish

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Cleaning/washing agents and additives

Restrictions on use : None known

### 1.3. Supplier

AHF Products 3840 Hempland Road Mountville, PA, 17554 T (717) 251-1073

#### 1.4. Emergency telephone number

Emergency number : CHEM-TEL 1-800-255-3924 OR 1-813-248-9585 (call collect)

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

#### **GHS US classification**

Skin sensitization, Category 1 H317 May cause an allergic skin reaction

Full text of H statements : see section 16

### 2.2. GHS Label elements, including precautionary statements

### **GHS US labeling**

Hazard pictograms (GHS US)



Signal word (GHS US) : Warning

Hazard statements (GHS US) : H317 - May cause an allergic skin reaction

Precautionary statements (GHS US) : P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.

P272 - Contaminated work clothing must not be allowed out of the workplace.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 - If on skin: Wash with plenty of water.

P321 - Specific treatment (see supplemental first aid instruction on this label). P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P363 - Wash contaminated clothing before reuse.

 $\ensuremath{\mathsf{P501}}$  - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

#### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### **SECTION 3: Composition/Information on ingredients**

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	GHS US classification
Zinc(2+), tetraammine-, (T-4)-, carbonate (1:1)	CAS-No.: 38714-47-5		Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of hazard classes and H-statements : see section 16

### **SECTION 4: First-aid measures**

### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs:

Get medical advice/attention.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after skin contact : May cause an allergic skin reaction.

#### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

### **SECTION 5: Fire-fighting measures**

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : Not determined.

### 5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Toxic fumes may be released.

#### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Fight fire with normal precautions from a reasonable distance.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

10/4/2023 (Revision date) EN (English US) 2/8

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing

dust/fume/gas/mist/vapors/spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer

to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

# **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid breathing

dust/fume/gas/mist/vapors/spray. Wear personal protective equipment.

Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated

clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands

after handling the product.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

### **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

### S-480 Armstrong Commercial Floor Polish

No additional information available

#### Water (7732-18-5)

No additional information available

### Diethylene glycol monoethyl ether (111-90-0)

No additional information available

#### **Ethanol, 2-butoxy-, phosphate (3:1) (78-51-3)**

No additional information available

### Zinc(2+), tetraammine-, (T-4)-, carbonate (1:1) (38714-47-5)

No additional information available

10/4/2023 (Revision date) EN (English US) 3/8

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

#### Hand protection:

Protective gloves

#### Eye protection:

Safety glasses

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

### Personal protective equipment symbol(s):







### **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : milky. watery liquid.

Color : White

Odor : Characteristic
Odor threshold : No data available

pH : 8.6

Melting point : Not applicable Freezing point : No data available

Boiling point : 100 °C

Flash point : No data available
Relative evaporation rate (butyl acetate=1) : No data available
Flammability : Not applicable.
Vapor pressure : No data available
Relative vapor density at 20°C : No data available

Relative density : 1.025 Solubility : Miscible.

Partition coefficient n-octanol/water (Log Pow) No data available Auto-ignition temperature No data available Decomposition temperature No data available : No data available Viscosity, kinematic Viscosity, dynamic : No data available **Explosion limits** : No data available Explosive properties : No data available Oxidizing properties : No data available

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### 9.2. Other information

No additional information available

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified.

Acute toxicity (dermal) : Not classified.

Acute toxicity (inhalation) : Not classified.

Skin corrosion/irritation : Not classified.

pH: 8.6

Serious eye damage/irritation : Not classified.

pH: 8.6

Respiratory or skin sensitization : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified.
Carcinogenicity : Not classified.
Reproductive toxicity : Not classified.
STOT-single exposure : Not classified.
STOT-repeated exposure : Not classified.
Aspiration hazard : Not classified.
Viscosity, kinematic : No data available

Symptoms/effects after skin contact : May cause an allergic skin reaction.

### **SECTION 12: Ecological information**

# 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse

effects in the environment.

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

No additional information available

### **SECTION 13: Disposal considerations**

### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

### **SECTION 14: Transport information**

In accordance with DOT / IMDG / IATA

#### 14.1. UN number

Not regulated for transport

### 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Not applicable
Proper Shipping Name (TDG) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable

### 14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : Not applicable

**IMDG** 

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

### 14.4. Packing group

Packing group (DOT) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable

### 14.5. Environmental hazards

Other information : No supplementary information available.

10/4/2023 (Revision date) EN (English US) 6/8

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### 14.6. Special precautions for user

#### DOT

No data available

#### IMDO

No data available

#### **IATA**

No data available

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

# **SECTION 15: Regulatory information**

### 15.1. US Federal regulations

#### S-480 Armstrong Commercial Floor Polish

SARA Section 311/312 Hazard Classes

Health hazard - Respiratory or skin sensitization

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

# 15.2. International regulations

### Zinc(2+), tetraammine-, (T-4)-, carbonate (1:1) (38714-47-5)

Listed on TECI (Thailand Existing Chemicals Inventory)

#### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

### **SECTION 16: Other information**

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date : 10/04/2023

Full text of H-phrases			
H315	Causes skin irritation		
H317	May cause an allergic skin reaction		
H319	Causes serious eye irritation		
H400	Very toxic to aquatic life		
H410	Very toxic to aquatic life with long lasting effects		

Safety Data Sheet (SDS), USA - HSI

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable

# SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

#### **SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

**Product identifier** 

Trade Name Graphite Dry Lubricant

Product Code 8-GS
Revision Date 10/20/2020

Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s)

Lubricant

Company Identification The Blaster Corporation

8500 Sweet Valley Drive Valley View, Ohio 44125

 Telephone
 (216) 901-5800

 Fax
 (216) 901-5801

 Website:
 www.blastercorp.com

Emergency telephone number CHEMTREC 24 hr. 1-800-424-9300

#### **SECTION 2: HAZARDS IDENTIFICATION**

#### Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200) Flam. Aerosol 1; Liquefied gas; Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; Asp.

Tox. 1

#### Label elements

This product is a consumer product and is labeled in accordance with the US Consumer Product Safety Commission regulations which take precedence over OSHA Hazard Communication labeling. The actual container label will not include the label elements below. The labeling below applies to industrial/professional products.

Hazard Symbol



Signal word(s)

Hazard Statement(s) Extremely flammable aerosol.

Contains gas under pressure; may explode if heated.

Causes skin irritation.

Causes serious eye irritation.

May be fatal if swallowed and enters airways.

May cause drowsiness or dizziness.

Precautionary Statement(s)

Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

Do not spray on an open flame or other ignition source.

Do not pierce or burn, even after use.

Use only outdoors or in a well-ventilated area.

Avoid breathing spray.

Revision: 10/20/2020 Page: 1



Protect from sunlight and do not expose to temperatures exceeding 50  $^{\circ}\text{C}/122\,^{\circ}\text{F}.$ 

Wear protective gloves/eye protection.

Wash hands and exposed skin after use.

Keep out of reach of children.

Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

### **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Hazardous Ingredient(s)	% wt. *	CAS No.	Hazard classification		
	30 - 40		Flam. Liq. 2; H225		
		Trade Secret	Asp. Tox. 1; H304		
Petroleum Distillate			Skin Irrit. 2; H315		
1 Cholean Blatmate			STOT SE 3; H336		
			Aquatic Acute 2; H401		
			Aquatic Chronic 2; H411		
	30 - 35	67-63-0	Flam. Liq. 2; H225		
Isopropanol			Eye Irrit. 2; H319		
			STOT SE 3; H336		
Propane	15 - 20	74-98-6	Flam. Gas 1; H220		
Торапе		14-30-0	Liquefied gas; H280		
Butane	10 - 15	106-97-8	Flam. Gas 1; H220		
Dutaile	10 - 13	100-91-0	Liquefied gas; H280		

**Additional Information -** Substances in the product which may present a health or environmental hazard, or which have been assigned occupational exposure limits, are detailed below.:

n-Butanol (CAS No. 71-36-3), <1%

Propylene glycol methyl ester (CAS No. 107-98-2) <1%

#### **SECTION 4: FIRST AID MEASURES**



Other hazards

### Description of first aid measures

Inhalation IF INHALED: Remove person to fresh air and keep comfortable for

breathing. If breathing is labored, administer oxygen. Call a POISON

CENTER/doctor if you feel unwell.

Skin Contact Wash affected skin with soap and water. If skin irritation occurs, get

medical advice/attention. Take off contaminated clothing and wash it

before reuse.

Eye Contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. If eye

irritation persists, get medical advice/attention.

Ingestion Do not give anything by mouth to an unconscious person. Seek medical

treatment. Do NOT induce vomiting.

 $\label{eq:most_symptoms} \mbox{ Most important symptoms and effects, both acute and }$ 

delayed

Aspiration of droplets may cause pulmonary oedema. May cause drowsiness and dizziness.

Indication of any immediate medical attention and special treatment needed

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Revision: 10/20/2020 Page: 2

<sup>\*</sup> The exact percentage withheld as a trade secret in accordance with 29 CFR 1910.1200.



# GRAPHITE DRY LUBRICANT

#### **SECTION 5: FIRE-FIGHTING MEASURES**

#### **Extinguishing Media**

-Suitable Extinguishing Media

-Unsuitable Extinguishing Media

Special hazards arising from the substance or

mixture

Advice for fire-fighters

Extinguish with carbon dioxide, dry chemical, foam or water spray.

Do not use water jet.

Highly flammable vapor (flash point below 23°C).

A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions. Keep containers cool by spraying

with water if exposed to fire.

### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and

emergency procedures

Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Take precautionary measures against static discharges. Avoid contact

with skin and eyes. Avoid breathing vapors.

Environmental precautions Prevent liquid entering sewers, basements and work pits. Collect

spillage.

Methods and material for containment and cleaning up Cover spills

Cover spills with inert absorbent material. Transfer to a container for

disposal or recovery.

Reference to other sections None
Additional Information None

#### **SECTION 7: HANDLING AND STORAGE**

**Precautions for safe handling** Keep away from heat/sparks/open flames/hot surfaces. – No

smoking. Avoid contact with skin and eyes. Use product in a well-

ventilated area only.

Conditions for safe storage, including any incompatibilities

-Storage temperature Store locked up.Keep in a cool, well ventilated place. Protect from

sunlight. Store at temperatures not exceeding 50 °C / 122 °F. Keep

container tightly closed.

-Incompatible materials This product should be stored away from sources of strong heat or

oxidizing chemicals.

Specific end use(s) Lubricant

#### **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

Occupational Exposure Limits

		(8hr TWA)		(STEL)		
SUBSTANCE.	CAS No.	PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	Note:
Alkanes and cycloalkanes (C5 - C8)			1500 mg/m3			
Alkanes and cycloalkanes (C9 - C15)			1200 mg/m3			
Isopropanol	67-63-0	400 ppm	200 ppm		400 ppm	
n-Butanol	71-36-3	100 ppm	20 ppm			
Propylene glycol methyl ester	107-98-2		50 ppm		100 ppm	
n-Butane	106-97-8		250 ppm			
Propane	74-98-6	1000 ppm	Aspyx.#			#

Revision: 10/20/2020 Page: 3



Recommended monitoring method NIOSH 1550 (Naphthas); NIOSH 1500 (hydrocarbons, B.P. 36 - 126

°C); NIOSH 1400 (alcohols I); NIOSH 1401 (alcohols II); NIOSH 2554

(Glycol Ethers)

**Exposure controls** 

Appropriate engineering controls Provide adequate ventilation to ensure that the occupational exposure

limit is not exceeded.

Personal protection equipment

Eye/face protection Wear protective eyewear (goggles, face shield, or safety glasses).

Skin protection (Hand protection/Other) Wear suitable gloves if prolonged skin contact is likely (Butyl rubber)

Respiratory protection Normally no personal respiratory protection is necessary. In case of

insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Not normally required. Use gloves with insulation for thermal

protection, when needed.

Environmental Exposure Controls None known

#### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Information on basic physical and chemical properties

Appearance Aerosol spray Color. Colorless

Odor Mild isopropanol odor

Odor Threshold (ppm) Not available pH (Value) Not available

Melting Point (°C) / Freezing Point (°C)

Not available

Boiling point/boiling range (°C):

Not available

Not available

Not available

-104 (Propane)

Evaporation Rate

Flammability (solid, gas)

Extremely flammable

Explosive Limit Ranges

Vapor pressure (Pascal)

Vapor Density (Air=1)

Not available

Extremely flammable

2.1% - 9.5% v/v (Propane)

ca. 95 x 10<sup>4</sup> (Propane)

ca. 1.56 @ 0°C (Propane)

Density (g/ml)

Solubility (Water)

Solubility (Other)

Partition Coefficient (n-Octanol/water)

Auto Ignition Point (°C)

Decomposition Temperature (°C)

Not available

Not available

Ato (Propane)

Not available

Kinematic Viscosity (@40°C) 0.49 mm²/sec (Naphtha (petroleum) hydrotreated light)

Explosive properties

Oxidizing properties

Not oxidizing.

**Other information** Not available



# GRAPHITE DRY LUBRICANT

#### **SECTION 10: STABILITY AND REACTIVITY**

Reactivity Stable under normal conditions.

Chemical stability Stable.

Possibility of hazardous reactions None anticipated.

Conditions to avoid Avoid contact with heat and ignition sources.

Incompatible materials Strong oxidizing agents; Strong Acids; Aldehydes; Halogens;

Amines; Halogenated Hydrocarbons, Alkalis.Do not use with aluminum equipment at temperatures exceeding 120°F.

Hazardous decomposition product(s)

Carbon monoxide, Carbon dioxide, Acrid smoke

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

Exposure routes: Inhalation, Skin Contact, Eye Contact

#### Information on toxicological effects

Petroleum distillate (CAS No. Trade Secret) - By analogy with similar materials:

Acute toxicity (calculated / estimated)

Oral: LD50 >5000 mg/kg-bw

Dermal: LD50 >2000 mg/kg-bw

Inhalation: LC0 ≥7.6 mg/l (Vapor), 4-hr. rat - May cause

drowsiness or dizziness.

Irritation/Corrosivity Causes skin irritation. Repeated exposure may cause skin dryness

or cracking.

Sensitization It is not a skin sensitizer.

Repeated dose toxicity Dermal: NOEAL >2000 mg/kg bw (systemic effects)

Inhalation: NOAEC = 1.4 mg/l (Vapor)

Carcinogenicity		It is unlikely	to present a carcinoge	nic hazard to man.	
NTP	IARC	ACGIH	OSHA	NIOSH	
No.	No.	No.	No.	No.	

 Mutagenicity
 Not to be expected

 Reproductive toxicity
 Not to be expected

Isopropanol (CAS# 67-63-0):

Acute toxicity Oral: LD50 = 5.84 g/kg (rat)

Inhalation: LC50 > 1000 ppm (rat) 6 hour(s) Dermal: LD50 = 16.4 ml/kg (rabbit) 24 hour(s)

May cause drowsiness or dizziness.

Irritation/Corrosivity Irritating to eyes.

Sensitization It is not a skin sensitizer.

Repeated dose toxicity

NOAEL = 5,000 ppm (Inhalation)

May cause drowsiness or dizziness.

Carcinogenicity		It is unlikely	to present a carcinoge	nic hazard to man.
NTP	IARC	ACGIH	OSHA	NIOSH
No.	No.	No.	No.	No.

Mutagenicity There is no evidence of mutagenic potential.

Reproductive toxicity Not available

#### **SECTION 12: ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

Petroleum distillate (CAS No. Trade Secret) - By analogy with similar materials:



# GRAPHITE DRY LUBRICANT

Short term LL50 (96 hour): 8.2 mg/L (fish)

EL50 (48 hour): 4.5 mg/L (crustacea) EL50 (72 hour): 3.1 mg/L (algae)

Long Term NOELR (21 days): 2.6 mg/L (crustacea; reproduction)

NOELR (72 hour): 0.5 mg/L (algae; growth rate)

Persistence and degradability According to OECD criteria the product is not readily biodegradable but

inherently biodegradable.

Bioaccumulative potential The product has no potential for bioaccumulation.

Mobility in soil Not available.

Results of PBT and vPvB assessment Not classified as PBT or vPvB.

Other adverse effects None known.

Isopropanol (CAS# 67-63-0):

Short term LC50 (96 hour): 10,000 mg/l (Fathead minnow (Pimephales promelas))

LC50 24hour(s): >10,000 mg/l (Daphnia magna)

Long Term NOEC: 3.37 μmol/l (Daphnia magna) (Growth rate)

Persistence and degradability Readily biodegradable.

Bioaccumulative potential Not available.

Mobility in soil Not available.

Results of PBT and vPvB assessment Not classified as PBT or vPvB.

Other adverse effects None known.

#### **SECTION 13: DISPOSAL CONSIDERATIONS**

Waste treatment methods Disposal should be in accordance with local, state or national

legislation. Consult an accredited waste disposal contractor or the

local authority for advice.

#### **SECTION 14: TRANSPORT INFORMATION**

	U.S. DOT	Sea transport <u>(IMDG)</u>	Air transport <u>(ICAO/IATA)</u>
UN number	1950	1950	1950
Proper Shipping Name	Aerosols, flammable	Aerosols, flammable	Aerosols, flammable
Transport hazard class(es)	2.1	2.1	2.1
Packing group	Not applicable	Not applicable	Not applicable
Environmental hazards	None assigned	None assigned	None assigned
Special precautions for user	None assigned	None assigned	None assigned

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

#### **SECTION 15: REGULATORY INFORMATION**

Safety, health and environmental regulations/legislation specific for the substance or mixture:

TSCA (Toxic Substance Control Act) - Inventory Status: All components listed or polymer exempt.

Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)
n-Butanol	71-36-3	0.3	5000

SARA 311/312 - Hazard Categories:

SARA 313 - Toxic Chemicals (40 CFR 372):



# GRAPHITE DRY LUBRICANT

Chemical Name	CAS No.	Typical %wt.
Isopropanol	67-63-0	33
n-Butanol	71-36-3	0.5

#### SARA 302 - Extremely Hazardous Substances(40 CFR 355):

Chemical Name	CAS No.	Typical %wt.	TPQ (pounds)
None			

#### California Proposition 65 List:

Chemical Name	CAS No.	Type of Toxicity
None		

#### **SECTION 16: OTHER INFORMATION**

The following sections contain revisions or new statements: 1-16.

Date of preparation: 10/20/2020

Hazard Statement(s) and Risk Phrases Listed in: SECTION 2:/ SECTION 3:

#### Hazard Statement(s)

- H220: Extremely flammable gas.
- H222: Extremely flammable aerosol.
- H225: Highly flammable liquid and vapor.
- H226: Flammable liquid and vapour.
- H280: Contains gas under pressure; may explode if heated.
- H302: Harmful if swallowed.
- H304: May be fatal if swallowed and enters airways.
- H315: Causes skin irritation.
- H318: Causes serious eye damage.
- H319: Causes serious eye irritation.
- H335: May cause respiratory irritation.
- H336: May cause drowsiness or dizziness.
- H401:Toxic to aquatic life.
- H411: Toxic to aquatic life with long lasting effects.

#### Training advice: None.

Disclaimer: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.



## **SAFETY DATA SHEET**

OSHA HCS (29 CFR 1910.1200)

#### **SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

**Product identifier** 

Chemical Name Mixture CAS No. Mixture

Trade Name B'laster PB Penetrating Lithium Grease

Product Code GR-8A-PB

Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s)
Uses Advised Against

Lubricant
None

Company Identification B'laster Corporation

8500 Sweet Valeey Drive Valley View, OH 44125

Telephone (800) 858-6605 / (216) 901-5800

Fax (216) 901-5801
Website www.blastercorp.com
Emergency telephone number ChemTel: (800) 255-3924

Emergency Phone No. Transportation Emergency: ChemTel: (800) 255-3924

#### **SECTION 2: HAZARDS IDENTIFICATION**

#### Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200)

Label elements

Hazard Symbol

Flam. Aerosol 2; Liquefied gas; Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; Asp. Tox. 1



Signal word(s)

Hazard Statement(s) Flammable aerosol.

Contains gas under pressure; may explode if heated.

Causes skin irritation.

Causes serious eye irritation.

May cause drowsiness or dizziness.

May be fatal if swallowed and enters airways.

Precautionary Statement(s) Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

Do not spray on an open flame or other ignition source.

Do not pierce or burn, even after use.

Wear protective gloves/protective clothing/eye protection/face protection.

Wash hands and exposed skin after use.

Avoid breathing spray.

Use only outdoors or in a well-ventilated area.

Protect from sunlight and do not expose to temperatures exceeding 50

°C/122 °F.



Page: 1/7

Other hazards

Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

#### **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Hazardous Ingredient(s)	% wt.	CAS No.	Hazard classification
Distillates (petroleum), hydrotreated light	30 - 40	64742-47-8	Skin Irrit. 2; H315 STOT SE 3; H336 Asp. Tox. 1; H304 Flam. Liq. 4; H227 Aquatic Acute 2; H401 Aquatic Chronic 2; H411
Distillates (petroleum), hydrotreated heavy naphthenic	5 - 15	64742-52-5	Asp. Tox. 1; H304
Solvent Naptha (Petroleum) Heavy Aromatic	5 - 15	64742-94-5	Flam. Liq. 4; H227 STOT SE 3; H336 Asp. Tox. 1; H304 Aquatic Acute 2; H401 Aquatic Chronic 2; H411
Propane	5 - 10	74-98-6	Flam. Gas 1; H220 Liquefied gas; H280
n-Butane	5 - 10	106-97-8	Flam. Gas 1; H220 Liquefied gas; H280
Dinonylphenol, ethoxylated, phosphated	0.1 - 2	39464-64-7	Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Acute 3; H402 Aquatic Chronic 4; H413
Naphthalenesulfonic acid, dinonyl-, calcium salt (2:1)	< 1	57855-77-3	Skin Irrit. 2; H315 Eye Irrit. 2; H319
Zinc oxide	< 1	1314-13-2	Aquatic Acute 1; H400 Aquatic Chronic 1; H410
Lubricating oils (petroleum), hydrotreated spent	< 1	64742-58-1	Not classified as dangerous for supply/use.

#### Additional Information - None

#### **SECTION 4: FIRST AID MEASURES**



#### Description of first aid measures

Inhalation Move person to fresh air. If breathing is laboured, administer oxygen. If

symptoms develop, obtain medical attention.

Skin Contact Wash affected skin with soap and water. If symptoms develop, obtain

medical attention. Take off contaminated clothing and wash it before

reuse.

Eye Contact Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. If eye irritation

persists, get medical advice/attention.

Ingestion Immediately call a POISON CENTER or doctor/physician. Do not

induce vomiting. Do not give anything by mouth to an unconscious

person.

Most important symptoms and effects, both acute and delayed

Aspiration of droplets may cause pulmonary oedema.



<sup>\*</sup> The exact percentage withheld as a trade secret in accordance with 29 CFR 1910.1200.

Indication of any immediate medical attention and special treatment needed

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

#### **SECTION 5: FIRE-FIGHTING MEASURES**

**Extinguishing Media** 

-Suitable Extinguishing Media Extinguish with carbon dioxide, dry chemical, foam or water spray.

-Unsuitable Extinguishing Media Do not use water jet.

Special hazards arising from the substance or

mixture

Flammable vapor.

Advice for fire-fighters A self contained breathing apparatus and suitable protective clothing

should be worn in fire conditions. Keep containers cool by spraying

with water if exposed to fire.

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and

emergency procedures

Eliminate sources of ignition. Avoid contact with eyes. Avoid breathing

spray. Wear protective gloves/eye protection.

Environmental precautions Prevent liquid entering sewers, basements and work pits. Avoid

release to the environment.

Methods and material for containment and cleaning up Cover spills with inert absorbent material. Transfer to a container for

disposal or recovery.

Reference to other sections None Additional Information None

#### **SECTION 7: HANDLING AND STORAGE**

Precautions for safe handling Keep away from heat, hot surfaces, sparks, open flames and other

ignition sources. No smoking. Avoid contact with skin and eyes. Use product in a well-ventilated area only. Avoid breathing spray.

Conditions for safe storage, including any incompatibilities

-Storage temperature Store in a well-ventilated place. Protect from sunlight. Do not expose

to temperatures exceeding 50°C/122°F. Keep container tightly

closed.

-Incompatible materials This product should be stored away from sources of strong heat,

strong acids, oxidizing chemicals and reducing agents.

Specific end use(s) Lubricant

#### **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **Occupational Exposure Limits**

		(8hr TWA)		(STEL)		
SUBSTANCE.	CAS No.	PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	Note:
Mineral oils / Oil Mist		5 mg/m3	5 mg/m3 <sup>(l)</sup>			(l)Inhalable
Alkanes (C9-C15)			1200 mg/m3			
Propane	74-98-6	1000 ppm	Aspyx.#			#
n-Butane	106-97-8		250 ppm			

<sup>\*</sup>Assure minimum oxygen content of work atmosphere.



Recommended monitoring method NIOSH 1550 (Naphthas); NIOSH 5026 (Oil mist; mineral); NIOSH 1500

(hydrocarbons, B.P. 36 - 216 °C)

**Exposure controls** 

Appropriate engineering controls Ensure adequate ventilation.

Personal protection equipment

Eye/face protection Wear protective eyewear (goggles, face shield, or safety glasses).



Skin protection (Hand protection/ Other) Wear suitable gloves if prolonged skin contact is likely (Nitrile rubber or

Butyl rubber). Check with protective equipment manufacturer's data.



Respiratory protection



Normally no personal respiratory protection is necessary. In case of insufficient ventilation, wear suitable respiratory equipment. Check with

protective equipment manufacturer's data.

Thermal hazards Not normally required. Use gloves with insulation for thermal protection,

when needed.

Environmental Exposure Controls Avoid release to the environment.

#### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Information on basic physical and chemical properties

Appearance Aerosol spray Color. Clear

Odor Mild petroleum, Solvent-like.

Odor Threshold (ppm) Not available pH (Value) Not available

Melting Point (°C) / Freezing Point (°C)

Boiling point/boiling range (°C):

Flash Point (°C)

Not available.

-104 (Propane)

Evaporation Rate

Flammability (solid, gas)

Extremely flammable

Explosive Limit Ranges

Vapor pressure (Pascal)

Vapor Density (Air=1)

Not available.

Extremely flammable

2.1% - 9.5% v/v (Propane)

ca. 95 x 10<sup>4</sup> (Propane)

ca. 1.56 @ 0°C (Propane)

Density (g/ml)

Not available

Solubility (Water)

Not available

Solubility (Other)

Not available

Partition Coefficient (n-Octanol/water)

Auto Ignition Point (°C)

Not available

450 (Propane)

Decomposition Temperature (°C)

Kinematic Viscosity (cSt)

Explosive properties

Oxidizing properties

Not available

< 20.5 @ 40 °C

Not explosive.

Not oxidizing.

Other information None

#### **SECTION 10: STABILITY AND REACTIVITY**

Reactivity Stable under normal conditions.

Chemical stability Stable.



Possibility of hazardous reactions None anticipated.

Conditions to avoid Avoid contact with heat and ignition sources.

Incompatible materials This product should be stored away from sources of strong heat,

strong acids, oxidizing chemicals and reducing agents.

Hazardous decomposition product(s)

Carbon monoxide, Carbon dioxide, Metal oxides, Acrid smoke

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

Exposure routes: Inhalation, Skin Contact, Eye Contact

#### Information on toxicological effects

Distillates (petroleum), hydrotreated light (CAS No. 64742-47-8) - By analogy with similar materials:

Acute toxicity (calculated / estimated) Oral: LD50 >5000 mg/kg-bw

Dermal: LD50 >2000 mg/kg-bw

Inhalation: LC0 ≥5.28 mg/l (Vapor), 4-hr. rat - May cause

drowsiness or dizziness.

Irritation/Corrosivity Causes skin irritation. Repeated exposure may cause skin dryness

or cracking.

SensitizationIt is not a skin sensitizer.Repeated dose toxicityOral: NOEAL 750 mg/kgDermal: NOEAL 0.5 ml/kg bw

Dermal: NOEAL 0.5 ml/kg bw Inhalation: NOAEL ≥1000 mg/m3

Carcinogenicity It is unlikely to present a carcinogenic hazard to man.

NTP	IARC	ACGIH	OSHA	NIOSH
No.	No.	No.	No.	No.

 Mutagenicity
 Not to be expected

 Reproductive toxicity
 Not to be expected

Solvent Naptha (Petroleum) Heavy Aromatic (CAS No. 64742-94-5)

Acute toxicity (calculated / estimated) Oral: LD50 >5 g/kg-bw

Dermal: LD50 >2 g/kg-bw

Inhalation: LC50 >20 mg/l (Vapor), 4-hr. rat - May cause drowsiness or

dizziness.

Irritation/Corrosivity Causes serious eye irritation. Unlikely to cause skin irritation.

Sensitization It is not a skin sensitizer.

Repeated dose toxicity No data

Carcinogenicity It is unlikely to present a carcinogenic hazard to man.

NTP	IARC	ACGIH	OSHA	NIOSH
No.	2B	No.	No.	No.

 Mutagenicity
 Not to be expected

 Reproductive toxicity
 Not to be expected

#### **SECTION 12: ECOLOGICAL INFORMATION**

Distillates (petroleum), hydrotreated light (CAS No. 64742-47-8) - By analogy with similar materials:

**Ecotoxicity** 

Short term LC50 (96 hour): 2.5 mg/L (fish)

EC50 (48 hour): 1.4 mg/L (crustacea) EC50 (72 hour): 1.3 mg/L (algae)



Long Term NOEC (28 days): 0.098 mg/L (fish)

LOEC (21 days): 1.2 mg/L (crustacea) LOEL (72 hour): 1 mg/L (algae)

Persistence and degradability Biodegradable

Bioaccumulative potential The product has no potential for bioaccumulation.

Mobility in soil Not available.

Results of PBT and vPvB assessment Not classified as PBT or vPvB.

Other adverse effects None known.

Solvent Naptha (Petroleum) Heavy Aromatic (CAS No. 64742-94-5)

Short term LC50 (96 hour): 3 mg/L (Oncorhynchus mykiss)

EL50 (48 hour): 1.1 mg/L (Daphnia magna)

Long Term No data

Persistence and degradabilityPart of the components are poorly biodegradable.Bioaccumulative potentialThe product has no potential for bioaccumulation.

Mobility in soil Not available.

Results of PBT and vPvB assessment Not classified as PBT or vPvB.

Other adverse effects None known.

#### **SECTION 13: DISPOSAL CONSIDERATIONS**

Waste treatment methods Disposal should be in accordance with local, state or national

legislation. Consult an accredited waste disposal contractor or the

local authority for advice.

#### **SECTION 14: TRANSPORT INFORMATION**

	U.S. DOT	Sea transport <u>(IMDG)</u>	Air transport <u>(ICAO/IATA)</u>
UN number	1950	1950	1950
Proper Shipping Name	Aerosols, flammable	Aerosols, flammable	Aerosols, flammable
Transport hazard class(es)	2.1	2.1	2.1
Packing group	Not applicable	Not applicable	Not applicable
Environmental hazards	None assigned	None assigned	None assigned
Special precautions for user	None assigned	None assigned	None assigned

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

#### **SECTION 15: REGULATORY INFORMATION**

Safety, health and environmental regulations/legislation specific for the substance or mixture:

TSCA (Toxic Substance Control Act) - Inventory Status: All components listed or polymer exempt.

Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)
None			

SARA 311/312 - Hazard Categories:

SARA 313 - Toxic Chemicals (40 CFR 372):

Chemical Name	CAS No.	Typical %wt.
Zinc compounds (Zinc oxide)	1314-13-2	< 2



#### SARA 302 - Extremely Hazardous Substances(40 CFR 355):

Chemical Name	CAS No.	Typical %wt.	TPQ (pounds)
None			

#### California Proposition 65 List:

Chemical Name	CAS No.	Typical %wt.	Type of Toxicity
Naphthalene	91-20-3		Cancer

#### **SECTION 16: OTHER INFORMATION**

The following sections contain revisions or new statements: 1-16.

Date of preparation: June 20, 2017

Hazard Statement(s) and Risk Phrases Listed in: SECTION 2:/ SECTION 3:

#### Hazard Statement(s)

- H220: Extremely flammable gas.
- H227: Combustible liquid.
- H280: Contains gas under pressure; may explode if heated.
- H304: May be fatal if swallowed and enters airways.
- H315: Causes skin irritation.
- H318: Causes serious eye damage.
- H319: Causes serious eye irritation.
- H336: May cause drowsiness or dizziness.
- H400: Very toxic to aquatic life.
- H401: Toxic to aquatic life.
- H402: Harmful to aquatic life.
- H410: Very toxic to aquatic life with long lasting effects
- H411: Toxic to aquatic life with long lasting effects.
- H413: May cause long lasting harmful effects to aquatic life.

#### Training advice: None.

Disclaimer: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.



#### SAFETY DATA SHEET

SECTION 1 PRODUCT and COMPANY INFORMATION

TRADE NAME: **Castle<sup>®</sup> Corrosion Off**<sup>™</sup> PRODUCT TYPE: Battery Cleaner

PRODUCT CODE: C0214, C0314, C1614

MANUFACTURED FOR: Castle Products, Inc.

424 St. Paul Street Rochester, NY 14605

800-876-0222 • FAX 585-325-4514 EMERGENCY 585-275-3232

#### **SECTION 2 HAZARD IDENTIFICATION**

EMERGENCY OVERVIEW: DANGER: Gases Under Pressure, Flammable, Irritant

♦

POTENTIAL HEALTH EFFECTS: Eyes: Irritating to eyes.

Skin: Irritating to skin. Prolonged skin contact may defat the skin and produce dermatitis. Inhalation: Irritating to respiratory system. Avoid breathing vapors or mists. Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness,

cessation of breathing.

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

Potential for aspiration if swallowed.

SECTION 3 COMPOSITION INFORMATION ON INGREDIENTS					
INGREDIENTS	CAS#	PEL	TLV	STEL	%
Propane/Isobutane/N-Butane	68476-86-8	NE	NE	NE	10-30%
Triethanolamine	102-71-6	50 ppm	5 mg/m <sup>3</sup>	NE	1-5%
2-Butoxyethanol	111-76-2	NE	NE	NE	<1%

#### SECTION 4 FIRST AID MEASURES

First Aid Procedures:

Eye contact: Hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Call a physician if irritation persists.

Skin contact: For skin contact flush with large amounts of water. Call a physician if irritation persists.

Inhalation: Immediately remove from further exposure. Give supplemental oxygen, if breathing is difficult. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.

Ingestion: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. If swallowed, do NOT induce vomiting. Give a glass of water. Never give anything by mouth to an unconscious person.

Note to physician: No information available.

#### **SECTION 5 FIRE FIGHTING MEASURES**

FLASH POINT: ≥ -156°F (≥ -104°C) LOWER EXPLOSIVE LIMIT: ND UPPER EXPLOSIVE LIMIT: ND EXTINGUISHING MEDIA: Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂). Appropriate for surrounding fire.

UNUSUAL FIRE & EXPLOSION HAZARDS: None

SPECIAL FIRE FIGHTING PROCEDURES: As in any fire, wear pressure-demand self-contained breathing apparatus, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions: Isolate area. Keep unnecessary personnel away. Stay upwind. Keep out of low areas. Ventilate spaces before entering.

Environmental precautions: Prevent further leakage or spillage if safe to do so.

Methods for containment: Prevent entry into waterways, sewers, basements or confined areas.

Methods for cleaning up: Eliminate ignition sources including sources of electrical, static or frictional sparks. Wear appropriate protective equipment and clothing during clean-up.

Small Spills: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for disposal.

Large Spills: Dike far ahead of liquid spill for later disposal. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

#### SECTION 7 HANDLING AND STORAGE

Handling: Propellant is extremely flammable. Do not store near ignition sources. Avoid breathing mist. Avoid contact with skin and eyes. Wear suitable protective clothing. Wash hands after handling.

Storage: Keep from freezing. Keep containers tightly closed. Store in a cool, dry place.

#### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits: None Established.

Engineering controls: Use local exhaust ventilation.

Personal protective equipment:

Gloves: Not normally required.

Eye/Face Protection: Safety glasses or goggles.

Skin Protection: Wear clothing suited to the task being performed.

Respiratory Protection: Not normally required if good ventilation is maintained.

#### **SECTION 9 PHYSICAL and CHEMICAL PROPERTIES**

BOILING POINT: ND SPECIFIC GRAVITY (H<sub>2</sub>O=1): ND VAPOR PRESSURE: ND PERCENT VOLATILE BY VOL %: 18% VAPOR DENSITY (air=1) >1 EVAPORATION RATE (Butyl Acetate=1): ND

SOLUBILITY IN WATER: ND APPEARANCE & ODOR: Yellow Liquid / Mild Solvent

pH: 9

#### SECTION 10 STABILITY and REACTIVITY DATA

STABILITY: Stable.

INCOMPATIBILITY (material to avoid): Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Oxides, Nitrogen Oxides, fumes.

HAZARDOUS POLYMERIZATION: Will not occur.

#### SECTION 11 TOXICOLOGICAL INFORMATION

Components Test Results:

Triethanolamine: Oral LD<sub>50</sub> (rat) 4190 mg/kg; Dermal LD<sub>50</sub> (rabbit) 2000 mg/kg

2-Butoxyethanol: Oral LD<sub>50</sub> (rat) 470 mg/kg; Dermal LD<sub>50</sub> (rabbit) 220 mg/kg; Inhalation LC<sub>50</sub> (rat) 450 ppm (4h)

There are no known carcinogenic chemicals in this product.

#### SECTION 12 ECOLOGICAL INFORMATION

Component Test Results: None reported.

#### SECTION 13 DISPOSAL CONSIDERATIONS

Disposal instructions: Dispose according to all applicable Federal, State, and Local regulations.

#### SECTION 14 TRANSPORT INFORMATION

DOT Ground: Consumer Commodity ORM-D, or Limited Quantity.

#### **SECTION 15 REGULATORY INFORMATION**

US federal regulations: All components are listed in the United States TSCA Regulations.

CERCLA (Superfund) reportable quantity: None

SARA (Superfund Amendments and Reauthorization Act of 1986):

313 Components: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Section 302 extremely hazardous substance: No

Section 311 hazardous chemical: Acute Health Hazard: Yes; Chronic Health Hazard: No; Fire Hazard: No; Sudden Release of Pressure Hazard: No.

Corrosion Off Product Code: C1614 Page 2 of 3

Canada: This Product has been classified according to the hazard criteria of the CPR and the SDS contains all of the information required by the CPR.

#### **SECTION 16 OTHER INFORMATION**

Further information: (HMIS® is a registered trade and service mark of the NPCA.)

HMIS® ratings Health: 1

Flammability: 2

Physical hazard: 2 NFPA ratings Health: 1

Flammability: 4

Instability: 4

Other: NA-Not Applicable, ND-Not Determined, NE-Not Established.

Disclaimer Terms and Conditions. This SDS is designed only as guidance for the products to which it applies. To the greatest extent permitted by applicable law, nothing contained herein creates any legal obligation including contractual obligations, expressed or implied warranties, including any warranties of merchantability or fitness for particular purpose; or confers any intellectual property rights, including rights to use trademarks or a license to use patents, issued or pending. The information contained herein is based on the manufacturer's own study and the work of others, and is subject to change at any time without further notice. There is no warranty, expressed or implied, as to the accuracy, completeness or adequacy of the information contained herein, and neither the provider nor the manufacturer (nor the agents, directors, officers, contractors or employees of either) are liable to any party for any damages of any nature, including direct, special or consequential damages arising out of or in connection with the accuracy, completeness, adequacy or furnishing of any information in this SDS, or in any other way related (directly or indirectly) to this SDS. The receipt and use of this information constitutes consent to these terms and conditions.

PREPARED: 7/16/93 UPDATED: 8/8/17 PRODUCT #: C0214, C0314, C1614

Corrosion Off Product Code: C1614 Page 3 of 3

# TABLE OF CONTENTS SAFETY DATA SHEET

#### SECTION 1 PRODUCT and COMPANY INFORMATION

TRADE NAME: Castle® Streak Proof™ PRODUCT TYPE: Glass Cleaner

PRODUCT CODE: C0603, C2003

MANUFACTURED FOR: Castle Products, Inc.

424 St. Paul Street Rochester, NY 14605 (800) 876-0222

EMERGENCY (585) 275-3232

#### SECTION 2 HAZARDS IDENTIFICATION

Physical hazards

Health hazards Not classified.
Environmental hazards Not classified.
OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Extremely flammable aerosol.

Precautionary statement

Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open

flame or other ignition source. Pressurized container: Do not pierce or burn, even after use.

Response Wash hands after handling.

Storage Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Disposal Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

#### SECTION 3 COMPOSITION INFORMATION ON INGREDIENTS

Mixtures			
Chemical name	Common name and synonyms	CAS number	%
2-Butoxyethanol		111-76-2	2.5 - 10
Isopropyl Alcohol		67-63-0	1 - 2.5
Propane		74-98-6	1 - 2.5
Anhydrous Ammonia		7664-41-7	0.1 - 1
Other components below reportable	levels		90 - 100

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### SECTION 4 FIRST AID MEASURES

Inhalation If symptoms develop move victim to fresh air. Get medical attention if symptoms persist.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

Streak Proof Product Code: C0603, C2003 Page 1 of 10

#### TABLE OF CONTENTS

Ingestion

In the unlikely event of swallowing contact a physician or poison control center.

Most important

Direct contact with eyes may cause temporary irritation.

symptoms/effects, acute and delayed

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically.

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

#### SECTION 5 FIRE FIGHTING MEASURES

Suitable extinguishing media

Unsuitable extinguishing

media

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

Fire-fighting

equipment/instructions

Specific methods

General fire hazards

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Contents under pressure. Pressurized container may explode when exposed to heat or flame.

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not breathe fumes.

Extremely flammable aerosol.

#### SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Methods and materials for containment and cleaning up Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Refer to attached safety data sheets and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

#### SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Level 1 Aerosol.

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122°F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Refrigeration recommended. Store away from incompatible materials (see Section 10 of the SDS).

Streak Proof Product Code: C0603, C2003 Page 2 of 10

#### EXPOSORE CONTROLS TEERS NAL PROTECTION **SECTION 8**

#### Occupational exposure limits

Components	Туре	!	Val	ue	
2-Butoxyethanol (CAS 111-76-2)	PEL			) mg/m3	
Anhydrous Ammonia (CA 7664-41-7)	S PEL			ppm mg/m3	
7004 41 7)			50	ppm	
Isopropyl Alcohol (CAS 67-63-0)	PEL			0 mg/m3	
Propane (CAS 74-98-6)	PEL		180	0 ppm 00 mg/m3 00 ppm	
US. ACGIH Threshold Lin	nit Values				
Components	Туре		Val	ue	
2-Butoxyethanol (CAS 111-76-2)	TWA	,	20	ppm	
Anhydrous Ammonia (CA 7664-41-7)				ppm	
	TWA			ppm	
Isopropyl Alcohol (CAS 67-63-0)	STEI			) ppm	
	TWA	•	200	) ppm	
US. NIOSH: Pocket Guide Components	e to Chemical Hazards Type		Val	IIA	
·					
2-Butoxyethanol (CAS 111-76-2)	TWA			mg/m3	
Anhydrous Ammonia (CA 7664-41-7)	S STEI	-	5 p 27	pm mg/m3	
7004 41 7)			35	ppm	
	TWA			mg/m3	
				ppm	
Isopropyl Alcohol (CAS 67-63-0)	STEI	_		25 mg/m3	
				) ppm	
	TWA			) mg/m3	
- (0.000)				) ppm	
Propane (CAS 74-98-6)	TWA	ı		00 mg/m3 00 ppm	
ogical limit values					
ACGIH Biological Exposu	re Indices				
Components	Value	Determinant	Specimen	Sampling Time	
2-Butoxyethanol (CAS 111-76-2)	200 mg/g	Butoxyacetic acid (BAA),	Creatinine in urine	*	
Isopropyl Alcohol (CAS 67-63-0)	40 mg/l	with hydrolysis Acetone	Urine	*	
,	lease see the source doc				

## Ex

US - California OELs: Skin designation

2-Butoxyethanol (CAS 111-76-2)

US - Minnesota Haz Subs: Skin designation applies

2-Butoxyethanol (CAS 111-76-2)

US - Tennesse OELs: Skin designation

2-Butoxyethanol (CAS 111-76-2)

Can be absorbed through the skin.

Skin designation applies.

Can be absorbed through the skin.

Streak Proof Product Code: C0603, C2003 Page 3 of 10 US NIOSH Pocket Guide to Chemical Hazards: இத்து முக்கு மாக்கி ம

2-Butoxyethanol (CAS 111-76-2) Can be absorbed through the skin.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Can be absorbed through the skin.

Individual protection measures, such as personal protective equipment

2-Butoxyethanol (CAS 111-76-2)

Eye/face protection Wear safety glasses with side shields (or goggles).

Hand protection Wear appropriate chemical resistant gloves.

Skin protection

Other Wear suitable protective clothing.

If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an Respiratory protection

air-supplied respirator.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

#### PHYSICAL and CHEMICAL PROPERTIES **SECTION 9**

**Appearance** 

Physical state Liquid. Form Aerosol. Color Not available. Not available. Odor Not available. Odor threshold Not available. рH Melting point/freezing point Not available.

Initial boiling point and boiling

range

195.27 °F (90.7 °C) estimated

-245.2 °F (-154.0 °C) estimated Flash point

Evaporation rate Not available. Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available. Not available. Vapor pressure Not available. Vapor density Relative density Not available.

Solubility(ies)

Solubility (water) Not available. Partition coefficient Not available.

(n-octanol/water)

Not available. Auto-ignition temperature Decomposition temperature Not available. Viscosity Not available.

Other information

Flammability class Flammable IB estimated

Streak Proof Product Code: C0603, C2003 Page 4 of 10 Heat of combustion 3.29 kJ/g estimated BLE OF CONTENTS

Specific gravity 0.926 estimated

SECTION 10 STABILITY and REACTIVITY DATA

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous Hazardous polymerization does not occur.

reactions

Conditions to avoid Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition No hazardous decomposition products are known.

products

#### SECTION 11 TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Ingestion Expected to be a low ingestion hazard.

Inhalation Prolonged inhalation may be harmful.

Rabbit

Skin contact 2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and

prolonged. These effects have not been observed in humans.

Eye contact Direct contact with eyes may cause temporary irritation.

potoms related to the Direct contact with eyes may cause temporary irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Information on toxicological effects

Acute toxicity

Components Species Test Results

2-Butoxyethanol (CAS 111-76-2)

Acute Dermal

LD50 Guinea pig 6411 mg/kg

230 ml/kg, 24 Hours 7.3 ml/kg, 4 Days 450 ml/kg, 24 Hours

435 mg/kg, 24 Hours

0.63 ml/kg

Rat > 2000 mg/kg, 24 Hours

Inhalation

LC50 Mouse 750 ppm, 7 Hours
Rabbit 400 ppm, 7 Hours

Rat 450 ppm, 4 Hours

Oral

LD100 Rabbit 695 mg/kg LD50 Dog > 695 mg/kg

Guinea pig 1200 mg/kg
Mouse 1230 mg/kg

Rat 530 - 2800 mg/kg

Anhydrous Ammonia (CAS 7664-41-7)

Acute Inhalation

LC50 Mouse 4230 ppm, If <1L: Consumer Commodity

Hours

Streak Proof Product Code: C0603, C2003 Page 5 of 10

Components	Species	TABLE OF CONTENTS	Test Results
	Rat		7939 mg/m3
			4000 ppm, If <1L: Consumer Commodity Hours
Oral			
LD50	Rat		350 mg/kg
Isopropyl Alcohol (CAS 67-63-0)			
Acute			
Dermal			
LD50	Rabbit		16.4 ml/kg, 24 Hours
Inhalation			
LC50	Rat		> 10000 ppm, 6 Hours
Oral			
LD50	Rat		5.84 g/kg
Propane (CAS 74-98-6)			
Acute			
Inhalation			
LC50	Mouse		1237 mg/l, 120 Minutes
			52 %, 120 Minutes
	Rat		1355 mg/l
			658 mg/l/4h
			-

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation. Direct contact with eyes may cause temporary irritation. Serious eye damage/eye

irritation

Respiratory or skin sensitization

Not available. Respiratory sensitization

Skin sensitization This product is not expected to cause skin sensitization.

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

2-Butoxyethanol (CAS 111-76-2) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Specific target organ toxicity -

Not classified.

Not classified.

repeated exposure

Not available. Aspiration hazard

Chronic effects Prolonged inhalation may be harmful. May be harmful if absorbed through skin.

2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and

prolonged. These effects have not been observed in humans.

#### **ECOLOGICAL INFORMATION SECTION 12**

The product is not classified as environmentally hazardous. However, this does not exclude the **Ecotoxicity** 

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Streak Proof Product Code: C0603, C2003 Page 6 of 10

Components		TARBESE OF CONTENTS	Test Results
2-Butoxyethanol (CAS	111-76-2)		
Aquatic			
Fish	LC50	Inland silverside (Menidia beryllina)	1250 mg/l, 96 hours
Anhydrous Ammonia (0	CAS 7664-41-7)		
Aquatic			
Fish	LC50	Chinook salmon (Oncorhynchus tshawytscha)	0.43 - 0.47 mg/l, 96 hours
Isopropyl Alcohol (CAS	6 67-63-0)		
Aquatic			
Algae	IC50	Algae	1000.0001 mg/L, 72 Hours
Crustacea	EC50	Daphnia	13299 mg/L, 48 Hours
Fish	LC50	Bluegill (Lepomis macrochirus)	> 1400 mg/l, 96 hours

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Partition coefficient n-octanol / water (log Kow)

2-Butoxyethanol 0.83 Isopropyl Alcohol 0.05 Propane 2.36

Mobility in soil No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

#### SECTION 13 DISPOSAL CONSIDERATIONS

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents

under pressure. Do not puncture, incinerate or crush. Dispose of contents/container in accordance

with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Do not re-use empty containers.

#### **SECTION 14 TRANSPORT INFORMATION**

DOT

UN number UN1950

UN proper shipping name Aerosols, flammable, (each not exceeding 1 L capacity)

Transport hazard class(es)

Class 2.1 Subsidiary risk -Label(s) 2.1

Packing group Not applicable.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions N82
Packaging exceptions 306
Packaging non bulk None
Packaging bulk None

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking and both may be displayed concurrently.

Streak Proof Product Code: C0603, C2003 Page 7 of 10

#### TABLE OF CONTENTS

IATA

UN number UN1950

UN proper shipping name Aerosols, flammable

Transport hazard class(es)

Class 2.1 Subsidiary risk -Label(s) 2.1

Packing group Not applicable.

Environmental hazards No. ERG Code 10L

Special precautions for user

Other information

Read safety instructions, SDS and emergency procedures before handling.

Passenger and cargo

aircraft

3 71

Cargo aircraft only Allowed.
Packaging Exceptions LTD QTY

**IMDG** 

UN number UN1950 UN proper shipping name AEROSOLS Transport hazard class(es)

Class 2.1 Subsidiary risk -Label(s) 2.1

Packing group Not applicable.

Environmental hazards

Special precautions for user

Read safety instructions, SDS and emergency procedures before handling.

Packaging Exceptions Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

LTD QTY Not applicable.

Allowed.

DOT



IATA; IMDG



#### **SECTION 15 REGULATORY INFORMATION**

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR ABLSE bot FDCONTENTS

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Anhydrous Ammonia (CAS 7664-41-7) Listed.

SARA 304 Emergency release notification

Anhydrous Ammonia (CAS 7664-41-7) 100 LBS OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Chemical name CAS number Reportable Threshold Threshold Threshold Threshold quantity planning quantity, planning quantity, lower value upper value

Anhydrous Ammonia 7664-41-7 100 500 lbs

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting)

Chemical name CAS number % by wt.

Anhydrous Ammonia 7664-41-7 0.1 - 1

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Anhydrous Ammonia (CAS 7664-41-7)

Propane (CAS 74-98-6)

Safe Drinking Water Act Not regulated.

(SDWA)

US state regulations

US. Massachusetts RTK - Substance List

2-Butoxyethanol (CAS 111-76-2) Anhydrous Ammonia (CAS 7664-41-7) Isopropyl Alcohol (CAS 67-63-0)

Propane (CAS 74-98-6)

US. New Jersey Worker and Community Right-to-Know Act

2-Butoxyethanol (CAS 111-76-2) Anhydrous Ammonia (CAS 7664-41-7) Isopropyl Alcohol (CAS 67-63-0) Propane (CAS 74-98-6)

US. Pennsylvania Worker and Community Right-to-Know Law

2-Butoxyethanol (CAS 111-76-2) Anhydrous Ammonia (CAS 7664-41-7) Isopropyl Alcohol (CAS 67-63-0) Propane (CAS 74-98-6)

US. Rhode Island RTK

Anhydrous Ammonia (CAS 7664-41-7) Isopropyl Alcohol (CAS 67-63-0)

Propane (CAS 74-98-6)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region Inventory name On inventory (yes/no)\*

Australia Australian Inventory of Chemical Substances (AICS)

No

Streak Proof Product Code: C0603, C2003 Page 9 of 10

#### TABLE OF CONTENTS

On inventory (yes/no)\*

Yes

Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

#### **SECTION 16 OTHER INFORMATION**

Other: NA-Not Applicable, ND-Not Determined, NE-Not Established.

Inventory name

Country(s) or region

Disclaimer Terms and Conditions. This SDS is designed only as guidance for the products to which it applies. To the greatest extent permitted by applicable law, nothing contained herein creates any legal obligation including contractual obligations, expressed or implied warranties, including any warranties of merchantability or fitness for particular purpose; or confers any intellectual property rights, including rights to use trademarks or a license to use patents, issued or pending. The information contained herein is based on the manufacturer's own study and the work of others, and is subject to change at any time without further notice. There is no warranty, expressed or implied, as to the accuracy, completeness or adequacy of the information contained herein, and neither the provider nor the manufacturer (nor the agents, directors, officers, contractors or employees of either) are liable to any party for any damages of any nature, including direct, special or consequential damages arising out of or in connection with the accuracy, completeness, adequacy or furnishing of any information in this SDS, or in any other way related (directly or indirectly) to this SDS. The receipt and use of this information constitutes consent to these terms and conditions.

Streak Proof Product Code: C0603, C2003 Page 10 of 10

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### SAFETY DATA SHEET

#### SECTION 1 PRODUCT and COMPANY INFORMATION

TRADE NAME: **Castle® Long Life™**PRODUCT TYPE: Battery Protectant
PRODUCT CODE: C0207, C1607

MANUFACTURED FOR: Castle Products, Inc.

424 St. Paul Street Rochester, NY 14605 (800) 876-0222

EMERGENCY (585) 275-3232

#### SECTION 2 HAZARDS IDENTIFICATION

GHS CLASSIFICATION: DANGER: Causes skin irritation. May cause respiratory irritation. May cause drowsiness or dizziness. Causes damage to organs (Eyes, Skin, Respiratory System, Central Nervous System, and Kidney) through prolonged or repeated exposure. May be fatal if swallowed and enters airways. Extremely Flammable Aerosol. Contains gas under pressure; may explode if heated. Keep out of reach of children. Classification:

Skin corrosion/irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 1
Aspiration toxicity	Category 1
Flammable aerosols	Category 1
Gasses under pressure	Compressed Gas

#### PRECAUTIONARY STATEMENTS: Wear protective gloves

Wash face, hands, and any exposed skin thoroughly after handling.

Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area.

Keep away from heat/sparks/open flames/hot surfaces-No smoking.

Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use.

#### SECTION 3 COMPOSITION INFORMATION ON INGREDIENTS

INGREDIENTS	CAS#	%
Heptane	142-82-5	40-50%
Propane/isobutane/n-Butane	68476-86-8	30-40%
Petroleum Distillates	8052-41-3	1-10%
Paraffinic Distillates, Heavy, Solvent Dewaxed	64742-65-0	1-10%
White Mineral Oil	8042-47-5	1-10%
Xylene	1330-20-7	0.1-1%
Crystalline Silica	14808-60-7	<0.1%
Toluene	108-88-3	<0.1%

#### SECTION 4 FIRST AID MEASURES

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician if irritation persists.

If on skin: Take off contaminated clothing and wash it before reuse. Wash with plenty of soap and water. Call a physician if irritation persists.

If swallowed: Rinse mouth. Do not induce vomiting. Never give anything by mouth to an unconscious person. Risk of product entering the lungs on vomiting after ingestion. Call a physician if you feel unwell.

If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a physician if you feel unwell.

#### **SECTION 5 FIRE FIGHTING MEASURES**

EXTINGUISHING MEDIA: Water fog. Dry chemical powder. Carbon dioxide (CO2). Appropriate for surrounding fire. SPECIFIC/UNUSUAL HAZARDS: Irritating gasses may be produced which will require SCBA or a fresh air source. SPECIAL FIRE FIGHTING EQUIPMENT and PRECAUTIONS for FIREFIGHTERS: As in any fire, wear pressure-demand self-contained breathing apparatus, MSHA/NIOSH (approved or equivalent) and full protective gear.

Long Life Product Code: C0207, C1607 Page 1 of 5

#### **SECTION 6 ACCIDENTAL RELEASE MEASURES**

Personal precautions: Isolate area. Keep unnecessary personnel away. Stay upwind. Keep out of low areas. Ventilate spaces before entering.

Environmental precautions: Prevent further leakage or spillage if safe to do so.

Methods for containment: Prevent entry into waterways, sewers, basements, or confined areas.

Methods for cleaning up: Eliminate ignition sources including sources of electrical, static or frictional sparks. Wear appropriate protective equipment and clothing during clean-up.

Small Spills: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for disposal.

Large Spills: A large spill is not likely to occur.

#### SECTION 7 HANDLING AND STORAGE

Handling: Avoid inhaling vapors or mists. Harmful if inhaled. May cause respiratory irritation if inhaled. May cause drowsiness or dizziness. Avoid contact with skin, eyes, and clothing. Do not eat, drink, or smoke, when using this product. Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Keep away from open flames, hot surfaces, and sources of ignition. Take precautionary measures against static discharges. Do not puncture or incinerate cans. Do not stick pin or any other sharp object into opening on top of can.

Storage: Store locked up. Keep containers tightly closed in a cool, dry, and well-ventilated place. Keep away from open flames, hot surfaces, and sources of ignition. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Do not spray on hot surfaces. Keep in properly labeled containers. Keep out of the reach of children.

#### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters: NE

**Exposure Guidelines** 

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Heptane	TLV: 400 ppm STEL: 500 ppm	TWA: 500 ppm	IDLH: 750 ppm Ceiling: 440 ppm 15 min TWA: 85 ppm
Propane/Isobutane/n-Butane	74-98-6: TWA: 1000 ppm 106-97-8: STEL: 1000 ppm 75-28-5: STEL: 1000 ppm	74-98-6:TWA: 1000 ppm TWA: 1800 mg/m <sub>3</sub>	74-98-6:IDLH: 2100 ppm TWA: 1000 ppm 106-97-8:TWA: 800 ppm 75-28-5:TWA: 800 ppm
Petroleum Distillates	TWA: 100 ppm	TWA: 500 ppm	IDLH: 20000 mg/m <sub>3</sub> Ceiling: 1800 mg/m <sub>3</sub> 15 min TWA: 350 mg/m <sub>3</sub>
Xylene	STEL: 150 ppm TWA: 100 ppm	TWA: 100 ppm	NE
White Mineral Oil	TLV: 5 mg/m <sup>3</sup> (oil mist)	PEL: 5 mg/m <sup>3</sup> (oil mist)	NE
Crystalline Silica	TWA: 0.025 mg/m <sup>3</sup> (respirable particulates)	TWA: 50 µg/m³ TWA: (250)/(%SiO2 + 5) mppcf respirable fraction TWA: (10)/(%SiO2 + 2) mg/m³ respirable fraction	IDLH: 50 mg/m³ respirable dust TWA: 0.05 mg/m³ respirable dust
Toluene	TWA: 20 ppm	TWA: 20 ppm Ceiling: 300 ppm	IDLH: 500 ppm TWA: 100 ppm STEL: 150 ppm

Appropriate Engineering Controls: Maintain adequate local exhaust ventilation.

Individual Protective Measures - Personal Protective Equipment:

Gloves: Wear impervious gloves.

Eye/Face Protection: Wear safety glasses or goggles.

Skin Protection: Wear clothing suited to the task being performed.

Respiratory Protection: Not normally required if good ventilation is maintained.

#### **SECTION 9 PHYSICAL and CHEMICAL PROPERTIES**

APPEARANCE: Opaque Purple Aerosol

ODOR: Solvent Odor ODOR THRESHOLD: ND

MELTING/FREEZING POINT: ND

BOILING POINT: ND BOILING RANGE: ND

FLASH POINT: -141°F (-96.4°C) Based on Propellant

LOWER EXPLOSIVE LIMIT: ND UPPER EXPLOSIVE LIMIT: ND FLAMMABILITY (solid, gas): NA

Long Life Product Code: C0207, C1607 Page 2 of 5

#### SECTION 9 PHYSICAL and CHEMICAL PROPERTIES, continued

AUTOIGNITION TEMPERATURE: ND EVAPORATION RATE (Butyl Acetate=1): ND

VAPOR PRESSURE: ND VAPOR DENSITY (air=1): ND RELATIVE DENSITY: (H<sub>2</sub>O=1): 0.691 SOLUBILITY IN WATER: Insoluble

PARTITION COEFFICIENT (n-octanol/water): ND

pH: NA

**DECOMPOSITION TEMPERATURE: ND** 

VISCOSITY: ND

PERCENT VOLATILE BY VOL %: 78%

#### SECTION 10 STABILITY and REACTIVITY DATA

CHEMICAL STABILITY: Stable under normal conditions.

POSSIBILITY of HAZARDOUS REACTIONS: Hazardous reactions are unlikely.

CONDITIONS TO AVOID: High temperatures, Direct Sunlight

INCOMPATIBLE MATERIALS: Strong acids, alkalis, or oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Monoxide, Carbon Dioxide, Hydrocarbon fumes and smoke.

HAZARDOUS POLYMERIZATION: Will not occur.

#### SECTION 11 TOXICOLOGICAL INFORMATION

HEALTH EFFECTS: No data available.

Chemical Name	LD <sub>50</sub> Oral	LD <sub>50</sub> Dermal	LC <sub>50</sub> Inhalation
Heptane	>5000 mg/kg (Rat)	>3160 mg/kg (Rabbit)	73680 ppm 4 hr. (Rat)
Petroleum Distillates	>5000 mg/kg (Rat)	>2000 mg/kg (Rabbit)	>5.2 mg/L 4 hr. (Rat)
Paraffinic Distillates, Heavy,	>15,000 mg/kg (Rat)	>5000 mg/kg (Rabbit)	>2400 mg/m <sup>3</sup> 4 hr. (Rat)
Solvent Dewaxed			
White Mineral Oil	>5000 mg/kg (Rat)		
Xylene	3500 mg/kg (Rat)	>4350 mg/kg (Rabbit)	29 mg/L 4 hr. (Rat)
Toluene	2600 mg/kg (Rat)	12,000 mg/kg (Rabbit)	12.5 mg/L 4 hr. (Rat)

LIKELY ROUTES of EXPOSURE: INHALATION: Yes

INGESTION: No SKIN CONTACT: No EYECONTACT: No

SYMPTOMS:

EFFECTS OF EXPOSURE: IMMEDIATE: ND

DELAYED: ND SHORT-TERM: ND LONG-TERM: ND

Carcinogenicity:

Chemical Name	ACGIH	IARC	NTP	OSHA
Xylene		Group 3		
Crystalline Silica	A2	Group 1	Known	Χ
Toluene		Group 3		

ACGIH: (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

IARC: (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

NTP: (National Toxicity Program)
Known - Known Carcinogen

OSHA: (Occupational Safety & Health Administration)

X - Present

#### SECTION 12 ECOLOGICAL INFORMATION

ECOTOXICITY: No Data Available.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Daphnia and other Aquatic Invertibrates
Heptane		375 mg/L LC <sub>50</sub> 96h Chiclid fish	
Paraffinic Distillates,		5000 mg/L LC <sub>50</sub> Oncorhynchus mykiss 96h	1000 mg/L EC <sub>50</sub> Daphnia
Heavy, Solvent Dewaxed			magna 48h

Long Life Product Code: C0207, C1607 Page 3 of 5

### SECTION 12 ECOLOGICAL INFORMATION, continued

White Mineral Oil		10,000 mg/L LC <sub>50</sub> Lepomis macrochirus 96h	
Xylene		13.1 - 16.5 mg/L LC <sub>50</sub> Lepomis macrochirus 96h flow-through 13.5 - 17.3 mg/L LC <sub>50</sub> Oncorhynchus mykiss 96h 2.661 - 4.093 mg/L LC <sub>50</sub> Oncorhynchus mykiss 96h static 23.53 - 29.97 mg/L LC <sub>50</sub> Pimephales promelas 96h static 30.26 - 40.75 mg/L LC <sub>50</sub> Poecilia reticulata 96h static 7.711 - 9.591 mg/L LC <sub>50</sub> Lepomis macrochirus 96h static 13.4 mg/L LC <sub>50</sub> Pimephales promelas 96h flow-through 19 mg/L LC <sub>50</sub> Lepomis macrochirus 96h 780 mg/L LC <sub>50</sub> Cyprinus carpio 96h semi-static 780 mg/L LC <sub>50</sub> Cyprinus carpio 96h	0.6 mg/L LC <sub>50</sub> Gammarus lacustris 48h 3.82 mg/L EC <sub>50</sub> water flea 48h
Toluene	12.5 mg/L EC <sub>50</sub> Pseudokirchneriella subcapitata 72h static 433 mg/L EC <sub>50</sub> Pseudokirchneriella subcapitata 96h	11.0 - 15.0 mg/L LC <sub>50</sub> Lepomis macrochirus 96h static 14.1 - 17.16 mg/L LC <sub>50</sub> Oncorhynchus mykiss 96h static 15.22 - 19.05 mg/L LC <sub>50</sub> Pimephales promelas 96h flow-through 5.89 - 7.81 mg/L LC <sub>50</sub> Oncorhynchus mykiss 96h flow-through 50.87 - 70.34 mg/L LC <sub>50</sub> Poecilia reticulata 96h static 12.6 mg/L LC <sub>50</sub> Pimephales promelas 96h static 28.2 mg/L LC <sub>50</sub> Poecilia reticulata 96h semi-static 5.8 mg/L LC <sub>50</sub> Oncorhynchus mykiss 96h semi-static 54 mg/L LC <sub>50</sub> Oryzias latipes 96h static	5.46 - 9.83 mg/L EC <sub>50</sub> Daphnia magna 48h Static 11.5 mg/L EC <sub>50</sub> Daphnia magna 48h

PERSISTANCE and DEGRADABILITY: ND BIOACCUMULATIVE POTENTIAL: ND

MOBILITY in SOIL: ND

OTHER ADVERSE EFFECTS: None Known.

#### **SECTION 13 DISPOSAL CONSIDERATIONS**

Disposal Considerations: Dispose according to all applicable Federal, State, and Local regulations.

#### **SECTION 14 TRANSPORT INFORMATION**

UN Number: UN1950

UN Proper Shipping Name: Aerosols, Flammable, LTD. QTY.

Transport Hazard Class(es): 2.1

Packing Group: NA Marine Pollutant: No

Special Precautions: None Required

DOT Classification: Consumer Commodity ORM-D, or Limited Quantity.

#### SECTION 15 REGULATORY INFORMATION

US federal regulations: All components are listed in the United States TSCA Regulations.

## CERCLA (Superfund) reportable quantity:

Chemical Name	Hazardous Substance RQ	Extremely Hazardous Substance RQ	RQ
Xylene	100 lb.	NA	RQ 100 lb.
Toluene	1000 lb.	NA	RQ 1000 lb.

#### Clean Water Act:

Che	mical Name	CWA – Reportable Quantity	CWA Toxic Pollutant	CWA Priority Pollutant	CWA Hazardous Substance
Xyle	ene	100 lb			X
Tolu	iene	1000 lb	Х	Х	X

Long Life Product Code: C0207, C1607 Page 4 of 5

#### SECTION 15 **REGULATORY INFORMATION, continued**

SARA (Superfund Amendments and Reauthorization Act of 1986):

313 Components: This material does contain a chemical component with a known CAS numbers that exceeds the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Chemical Name	CAS No.	Weight %	SARA 313 Threshold Value %
Xylene	1330-20-7	0.1-1 %	1.0%
Toluene	108-88-3	<0.1%	1.0%

Section 302 extremely hazardous substance: No

Section 311/312 Hazard Categories:

Acute Health Hazard: Yes Chronic Health Hazard: Yes

Fire Hazard: Yes

Sudden Release of Pressure Hazard: Yes

Reactive Hazard: No

Canada: This Product has been classified according to the hazard criteria of the CPR and the SDS contains all of the information required by the CPR.

California Proposition 65: MARNING: Cancer and Reproductive Harm – www.P65Warnings.ca.gov

#### OTHER INFORMATION SECTION 16

Further information: (HMIS® is a registered trade and service mark of the NPCA.)

HMIS® ratings Health: 2

Flammability: 4

Physical hazard: 1

NFPA ratings Health: 2

Flammability: 4 Instability: 0

Other: NA-Not Applicable, ND-Not Determined, NE-Not Established.

Disclaimer Terms and Conditions. This SDS is designed only as guidance for the products to which it applies. To the greatest extent permitted by applicable law, nothing contained herein creates any legal obligation including contractual obligations, expressed or implied warranties, including any warranties of merchantability or fitness for particular purpose; or confers any intellectual property rights, including rights to use trademarks or a license to use patents, issued or pending. The information contained herein is based on the manufacturer's own study and the work of others, and is subject to change at any time without further notice. There is no warranty, expressed or implied, as to the accuracy, completeness or adequacy of the information contained herein, and neither the provider nor the manufacturer (nor the agents, directors, officers, contractors or employees of either) are liable to any party for any damages of any nature, including direct, special or consequential damages arising out of or in connection with the accuracy, completeness, adequacy or furnishing of any information in this SDS, or in any other way related (directly or indirectly) to this SDS. The receipt and use of this information constitute consent to these terms and conditions.

PREPARED: 10/21/1993 UPDATED: 03/15/2022 PRODUCT #: C0207,C1607

> Long Life Product Code: C0207, C1607 Page 5 of 5

## SAFETY DATA SHEET



## Section 1. Identification

**Product name** Castrol Transmax Type F

467291 SDS#

Code 467291-US81

Relevant identified uses of the substance or mixture and uses advised against

**Product use** Automatic transmission fluid

For specific application advice see appropriate Technical Data Sheet or consult our

company representative.

Supplier BP Lubricants USA Inc.

> 1500 Valley Road Wayne, NJ 07470

Telephone: (973) 633-2200

**EMERGENCY HEALTH** 

**INFORMATION:** 

1 (800) 447-8735

Outside the US: +1 703-527-3887 (CHEMTREC)

**EMERGENCY SPILL** 

**INFORMATION:** 

1 (800) 424-9300 CHEMTREC (USA)

## Section 2. Hazards identification

**OSHA/HCS** status This material is not considered hazardous by the OSHA Hazard Communication

Standard (29 CFR 1910.1200).

Classification of the

substance or mixture

Not classified.

**GHS label elements** 

Signal word No signal word.

**Hazard statements** No known significant effects or critical hazards.

**Precautionary statements** 

Read label before use. Keep out of reach of children. If medical advice is needed, have General

product container or label at hand.

Prevention Not applicable. Response Not applicable. **Storage** Not applicable. **Disposal** Not applicable. Hazards not otherwise

classified

Defatting to the skin.

## Section 3. Composition/information on ingredients

Substance/mixture

Highly refined base oil (IP 346 DMSO extract < 3%). Proprietary performance additives.

Ingredient name	CAS number	%
, , /, ,	64742-65-0	≥90
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	≤5

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**Product name Product code** 467291-US81 Page: 1/8 Castrol Transmax Type F Version 2 Date of issue 07/23/2019. Format US Language ENGLISH

## Section 3. Composition/information on ingredients

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

#### **Description of necessary first aid measures**

Eye contact In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.

Eyelids should be held away from the eyeball to ensure thorough rinsing. Check for and

remove any contact lenses. Get medical attention.

Skin contact Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove

contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly

before reuse. Get medical attention if symptoms occur.

Inhalation If inhaled, remove to fresh air. Get medical attention if symptoms occur.

Ingestion Do not induce vomiting unless directed to do so by medical personnel. Get medical

attention if symptoms occur.

**Protection of first-aiders**No action shall be taken involving any personal risk or without suitable training.

#### Most important symptoms/effects, acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

#### Indication of immediate medical attention and special treatment needed, if necessary

**Notes to physician**Treatment should in general be symptomatic and directed to relieving any effects.

**Specific treatments** No specific treatment.

## Section 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing

media

Do not use water jet.

Unsuitable extinguishing

media

....

,

Specific hazards arising from the chemical

**Hazardous combustion** 

products

In a fire or if heated, a pressure increase will occur and the container may burst.

In case of fire, use foam, dry chemical or carbon dioxide extinguisher or spray.

combustion products may include the following:

carbon oxides (CO, CO<sub>2</sub>) (carbon monoxide, carbon dioxide)

Special protective actions for fire-fighters

Special protective equipment for fire-fighters

No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.

Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

#### Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. Floors may be slippery; use care to avoid falling.

For emergency responders

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-

emergency personnel".

**Environmental precautions** 

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Product name Castrol Transmax Type F Product code 467291-US81 Page: 2/8

#### Section 6. Accidental release measures

#### Methods and materials for containment and cleaning up

Small spill Stop leak if without risk. Move containers from spill area. Absorb with an inert material

and place in an appropriate waste disposal container. Dispose of via a licensed waste

disposal contractor.

Large spill Stop leak if without risk. Move containers from spill area. Prevent entry into sewers,

water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed

waste disposal contractor.

## Section 7. Handling and storage

#### Precautions for safe handling

**Protective measures** 

Advice on general occupational hygiene

Put on appropriate personal protective equipment (see Section 8).

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for

additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Store and use only in equipment/containers designed for use with this product. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls/personal protection

#### **Control parameters**

**Occupational exposure limits** 

Ingredient name	<b>Exposure limits</b>
Distillates (petroleum), solvent-dewaxed heavy paraffinic	ACGIH TLV (United States).  TWA: 5 mg/m³ 8 hours. Issued/Revised: 11/2009 Form: Inhalable fraction OSHA PEL (United States).  TWA: 5 mg/m³ 8 hours. Issued/Revised: 6/1993
Distillates (petroleum), solvent-refined heavy paraffinic	ACGIH TLV (United States).  TWA: 5 mg/m³ 8 hours. Issued/Revised: 11/2009 Form: Inhalable fraction OSHA PEL (United States).  TWA: 5 mg/m³ 8 hours. Issued/Revised: 6/1993

While specific OELs for certain components may be shown in this section, other components may be present in any mist, vapor or dust produced. Therefore, the specific OELs may not be applicable to the product as a whole and are provided for guidance only.

## Appropriate engineering controls

All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled. Personal protective equipment should only be considered after other forms of control measures (e.g. engineering controls) have been suitably evaluated. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained. Your supplier of personal protective equipment should be consulted for advice on selection and appropriate standards. For further information contact your national organisation for standards.

Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits.

The final choice of protective equipment will depend upon a risk assessment. It is

Product nameCastrol Transmax Type FProduct code467291-US81Page: 3/8Version 2Date of issue 07/23/2019.Format USLanguage ENGLISH

## Section 8. Exposure controls/personal protection

Environmental exposure controls

important to ensure that all items of personal protective equipment are compatible.

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### **Individual protection measures**

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

Safety glasses with side shields.

Skin protection

Hand protection

Wear suitable gloves. The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves

(even the best chemically resistant glove will break down after repeated chemical exposures). Most gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the supplier/manufacturer and

with a full assessment of the working conditions.

**Body protection** Use of protective clothing is good industrial practice.

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling

this product.

Cotton or polyester/cotton overalls will only provide protection against light superficial contamination that will not soak through to the skin. Overalls should be laundered on a regular basis. When the risk of skin exposure is high (e.g. when cleaning up spillages or if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical

suits and boots will be required.

Other skin protection Appropriate footwear and any additional skin protection measures should be selected

based on the task being performed and the risks involved and should be approved by a

specialist before handling this product.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

The correct choice of respiratory protection depends upon the chemicals being handled, the conditions of work and use, and the condition of the respiratory equipment. Safety procedures should be developed for each intended application. Respiratory protection equipment should therefore be chosen in consultation with the supplier/manufacturer

and with a full assessment of the working conditions.

## Section 9. Physical and chemical properties

**Appearance** 

Physical stateLiquid.ColorRed.OdorMild.

Odor thresholdNot available.pHNot available.Melting pointNot available.Boiling pointNot available.

Flash point Open cup: 207°C (404.6°F) [Cleveland.]

**Evaporation rate** Not available.

Flammability (solid, gas) Not applicable. Based on - Physical state

Lower and upper explosive

(flammable) limits

Not available.

Vapor pressureNot available.Vapor densityNot available.DensityNot available.

Product name Castrol Transmax Type F Product code 467291-US81 Page: 4/8

## Section 9. Physical and chemical properties

Relative density 0.86

Solubility insoluble in water.

Partition coefficient: noctanol/water

insoluble in water.

Not available.

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Kinematic: 7.63 mm<sup>2</sup>/s (7.63 cSt) at 100°C

## Section 10. Stability and reactivity

Reactivity No specific test data available for this product. Refer to Conditions to avoid and

Incompatible materials for additional information.

Chemical stability The product is stable.

Possibility of hazardous Under normal conditions of storage and use, hazardous reactions will not occur.

reactions Under normal conditions of storage and use, hazardous polymerization will not occur.

Conditions to avoid Avoid all possible sources of ignition (spark or flame).

**Incompatible materials** Reactive or incompatible with the following materials: oxidizing materials.

Hazardous decomposition Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## **Section 11. Toxicological information**

#### Information on toxicological effects

Information on the likely Routes of entry anticipated: Dermal, Inhalation. routes of exposure

Potential acute health effects

Eye contact No known significant effects or critical hazards.

Skin contact No known significant effects or critical hazards.

Inhalation Vapor inhalation under ambient conditions is not normally a problem due to low vapor

pressure.

**Ingestion** No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact No specific data.

**Skin contact** Adverse symptoms may include the following:

irritation dryness cracking

InhalationNo specific data.IngestionNo specific data.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

Potential immediate Not available.

effects

Potential delayed effects Not available.

Long term exposure

Potential immediate Not available.

effects

Product nameCastrol Transmax Type FProduct code467291-US81Page: 5/8

## **Section 11. Toxicological information**

Potential delayed effects Not available.

Potential chronic health effects

GeneralNo known significant effects or critical hazards.CarcinogenicityNo known significant effects or critical hazards.MutagenicityNo known significant effects or critical hazards.TeratogenicityNo known significant effects or critical hazards.Developmental effectsNo known significant effects or critical hazards.Fertility effectsNo known significant effects or critical hazards.

#### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

Not available.

## Section 12. Ecological information

#### **Toxicity**

No testing has been performed by the manufacturer.

#### Persistence and degradability

Not available.

#### **Bioaccumulative potential**

Not available.

Mobility in soil

Soil/water partition coefficient (Koc)

Not available.

Other adverse effects No known significant effects or critical hazards.

## Section 13. Disposal considerations

#### **Disposal methods**

The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## **Section 14. Transport information**

	DOT Classification	TDG Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-

Product nameCastrol Transmax Type FProduct code467291-US81Page: 6/8

# Section 14. Transport information Transport hazard class(es) Packing group - - - - - - - - - - Environmental hazards Additional information Section 14. Transport information

Special precautions for user

Not available.

Transport in bulk according to Annex II of MARPOL and

Not available.

the IBC Code

## Section 15. Regulatory information

U.S. Federal regulations

United States inventory (TSCA 8b)

MI components are active or exempted.

**SARA 302/304** 

**Composition/information on ingredients** 

No products were found.

**SARA 311/312** 

Classification Mot applicable.

**SARA 313** 

Form R - Reporting

**Supplier notification** 

This product does not contain any hazardous ingredients at or above regulated thresholds.

requirements

This product does not contain any hazardous ingredients at or above regulated

thresholds.

State regulations

Massachusetts The following components are listed: OIL MIST, MINERAL; OIL MIST, MINERAL

New Jersey

Mone of the components are listed.

Pennsylvania

None of the components are listed.

California Prop. 65

his product does not require a Safe Harbor warning under California Prop. 65.

Other regulations

Australia inventory (AICS)

Canada inventory

China inventory (IECSC)

Japan inventory (ENCS)

Korea inventory (KECI)

Philippines inventory

All components are listed or exempted.

All components are listed or exempted.

At least one component is not listed.

At least one component is not listed.

All components are listed or exempted.

(PICCS)

Taiwan Chemical Not determined.

**Substances Inventory** 

(TCSI)

**REACH Status** For the REACH status of this product please consult your company contact, as

identified in Section 1.

Product nameCastrol Transmax Type FProduct code467291-US81Page: 7/8

# Section 16. Other information

# **National Fire Protection Association (U.S.A.)**



#### **History**

Date of issue/Date of

revision

Date of previous issue

**Prepared by** 

Key to abbreviations

07/23/2019.

03/08/2017.

Product Stewardship

ACGIH = American Conference of Industrial Hygienists

ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

CAS Number = Chemical Abstracts Service Registry Number

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as

modified by the Protocol of 1978. ("Marpol" = marine pollution)

OEL = Occupational Exposure Limit

SDS = Safety Data Sheet

STEL = Short term exposure limit TWA = Time weighted average

UN = United Nations

UN Number = United Nations Number, a four digit number assigned by the United

Nations Committee of Experts on the Transport of Dangerous Goods.

Varies = may contain one or more of the following 64741-88-4, 64741-89-5, 64741-95-3, 64741-96-4, 64742-01-4, 64742-44-5, 64742-45-6, 64742-52-5, 64742-53-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-57-0, 64742-58-1, 64742-62-7, 64742-63-8, 64742-65-0,

64742-70-7, 72623-85-9, 72623-86-0, 72623-87-1

#### Indicates information that has changed from previously issued version.

#### Notice to reader

All reasonably practicable steps have been taken to ensure this data sheet and the health, safety and environmental information contained in it is accurate as of the date specified below. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet.

The data and advice given apply when the product is sold for the stated application or applications. You should not use the product other than for the stated application or applications without seeking advice from BP Group.

It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The BP Group shall not be responsible for any damage or injury resulting from use, other than the stated product use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material. Purchasers of the product for supply to a third party for use at work, have a duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. Employers have a duty to tell employees and others who may be affected of any hazards described in this sheet and of any precautions that should be taken. You can contact the BP Group to ensure that this document is the most current available. Alteration of this document is strictly prohibited.

Product nameCastrol Transmax Type FProduct code467291-US81Page: 8/8

Version 2 Date of issue 07/23/2019. Format US Language ENGLISH

# Safety Data Sheet



# **SECTION 1 IDENTIFICATION**

# Chevron 1000 THF

Recommended Use: Tractor Hydraulic Fluid & Wet Brake

**Restrictions on Use:** Consult supplier when used other than those specified. **Other means of identification:** Chevron 1000 THF ISOCLEAN Certified

Product Number(s): 219920, 226606, 278021

Company Identification
Chevron Products Company
a division of Chevron U.S.A. Inc.
5001 Executive Parkway
San Ramon, CA 94583
United States of America
www.chevronlubricants.com

#### **Transportation Emergency Response**

CHEMTREC: (800) 424-9300 or (703) 527-3887

**Health Emergency** 

Chevron Emergency & Information Center: Located in the USA. International collect calls accepted. (800)

231-0623 or (510) 231-0623

**Product Information** 

email: lubemsds@chevron.com

Product Information: 1 (800) 582-3835, LUBETEK@chevron.com

# SECTION 2 HAZARDS IDENTIFICATION

# **CLASSIFICATION:**

Not classified as hazardous according to 29 CFR 1910.1200 (2012).

HAZARDS NOT OTHERWISE CLASSIFIED: Not Applicable

# **SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS**

COMPONENTS	CAS NUMBER	AMOUNT
Highly refined mineral oil (C15 - C50)	Mixture	70 - 99 %weight

# **SECTION 4 FIRST AID MEASURES**

#### **Description of first aid measures**

**Eye:** No specific first aid measures are required. As a precaution, remove contact lenses, if worn, and flush eyes with water.

**Skin:** No specific first aid measures are required. As a precaution, remove clothing and shoes if contaminated. To remove the material from skin, use soap and water. Discard contaminated clothing

Revision Number: 22 1 of 9 Chevron 1000 THF Revision Date: October 29, 2024 SDS: 7648

and shoes or thoroughly clean before reuse.

**Ingestion:** No specific first aid measures are required. Do not induce vomiting. As a precaution, get medical advice.

**Inhalation:** No specific first aid measures are required. If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs. If exposure to hydrogen sulfide (H2S) gas is possible during an emergency, wear an approved, positive pressure air-supplying respirator. Move the exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

# Most important symptoms and effects, both acute and delayed IMMEDIATE HEALTH EFFECTS

**Eye:** Not expected to cause prolonged or significant eye irritation.

**Skin:** High-Pressure Equipment Information: Accidental high-velocity injection under the skin of materials of this type may result in serious injury. Seek medical attention at once should an accident like this occur. The initial wound at the injection site may not appear to be serious at first; but, if left untreated, could result in disfigurement or amputation of the affected part.

Contact with the skin is not expected to cause prolonged or significant irritation. Contact with the skin is not expected to cause an allergic skin response. Not expected to be harmful to internal organs if absorbed through the skin.

Ingestion: Not expected to be harmful if swallowed.

**Inhalation:** Not expected to be harmful if inhaled. Contains a petroleum-based mineral oil. May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recommended mineral oil mist exposure limit. Symptoms of respiratory irritation may include coughing and difficulty breathing. Hydrogen sulfide has a strong rotten-egg odor. However, with continued exposure and at high levels, H2S may deaden a person's sense of smell. If the rotten egg odor is no longer noticeable, it may not necessarily mean that exposure has stopped. At low levels, hydrogen sulfide causes irritation of the eyes, nose, and throat. Moderate levels can cause headache, dizziness, nausea, and vomiting, as well as coughing and difficulty breathing. Higher levels can cause shock, convulsions, coma, and death. After a serious exposure, symptoms usually begin immediately.

The U.S. National Institute for Occupational Safety and Health (NIOSH) considers air concentrations of hydrogen sulfide gas greater than 100 ppm to be Immediately Dangerous to Life and Health (IDLH).

#### **DELAYED OR OTHER HEALTH EFFECTS:** Not classified

### Indication of any immediate medical attention and special treatment needed

**Note to Physicians:** Administration of 100% oxygen and supportive care is the preferred treatment for poisoning by hydrogen sulfide gas. For additional information on H2S, see Chevron SDS No. 301. In an accident involving high-pressure equipment, this product may be injected under the skin. Such an accident may result in a small, sometimes bloodless, puncture wound. However, because of its driving force, material injected into a fingertip can be deposited into the palm of the hand. Within 24 hours, there is usually a great deal of swelling, discoloration, and intense throbbing pain. Immediate treatment at a surgical emergency center is recommended.

# SECTION 5 FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

UNSUITABLE EXTINGUISHING MEDIA: No data available

**Unusual Fire Hazards:** Leaks/ruptures in high pressure system using materials of this type can create a fire hazard when in the vicinity of ignition sources (eg. open flame, pilot lights, sparks, or electric arcs).

#### PROTECTION OF FIRE FIGHTERS:

Revision Number: 22 2 of 9 Chevron 1000 THF Revision Date: October 29, 2024 SDS: 7648

**Fire Fighting Instructions:** This material will burn although it is not easily ignited. See Section 7 for proper handling and storage. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus. **Combustion Products:** Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion. Combustion may form oxides of: Calcium, Phosphorus, Sulfur, Zinc.

#### SECTION 6 ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment, and emergency procedures:** Observe all relevant local and international regulations. Eliminate all sources of ignition in vicinity of spilled material. Keep out unnecessary and unprotected personnel. Persons entering the contaminated area to correct the problem or to determine whether it is safe to resume normal activities must comply with all instructions and wear appropriate personal protective equipment as indicated in Section 8.

**Spill Management:** Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

**Reporting:** Report spills to local authorities and/or the U.S. Coast Guard's National Response Center at (800) 424-8802 as appropriate or required.

#### **SECTION 7 HANDLING AND STORAGE**

**General Handling Information:** Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

**Precautionary Measures:** DO NOT USE IN HIGH PRESSURE SYSTEMS in the vicinity of flames, sparks and hot surfaces. Use only in well ventilated areas. Keep container closed. Do not breathe gas. Wash thoroughly after handling. Keep out of the reach of children.

**Unusual Handling Hazards:** Toxic quantities of hydrogen sulfide (H2S) may be present in storage tanks and bulk transport vessels which contain or have contained this material. Persons opening or entering these compartments should first determine if H2S is present. See Exposure Controls/Personal Protection -Section 8. Do not attempt rescue of a person over exposed to H2S without wearing approved suppliedair or self-contained breathing equipment. If there is a potential for exceeding one-half the occupational exposure standard, monitoring of hydrogen sulfide levels is required. Since the sense of smell cannot be relied upon to detect the presence of H2S, the concentration should be measured by the use of fixed or portable devices.

**Static Hazard:** Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating and accumulating an electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures.

**Container Warnings:** Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.

# SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Revision Number: 22 3 of 9 Chevron 1000 THF Revision Date: October 29, 2024 SDS: 7648

#### **GENERAL CONSIDERATIONS:**

Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the workplace when designing engineering controls and selecting personal protective equipment (PPE). If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, refer to PPE information below.

Factors that affect PPE include, but are not limited to: properties of the chemical, other chemicals which may contact the same PPE, physical requirements (fit & sizing, cut/puncture protection, dexterity, thermal protection, etc.), and potential allergic reactions to the PPE material. It is the responsibility of the user to read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances. Refer to appropriate CEN standards.

# **ENGINEERING CONTROLS:**

Use in a well-ventilated area.

#### PERSONAL PROTECTIVE EQUIPMENT

**Eye/Face Protection:** Wear protective equipment to prevent eye contact. Selection of protective equipment may include safety glasses, chemical goggles, face shields, or a combination depending on the work operations conducted.

**Skin Protection:** Wear chemical personal protective equipment (PPE) to prevent skin contact. Selection of chemical protective clothing should be performed by an Occupational Hygienist or Safety Professional and be based upon applicable standards (ASTM F739 or EN 374). Using chemical PPE depends upon operations conducted and may include chemical gloves, boots, chemical apron, chemical suit, and complete facial protection. **Refer to PPE manufacturers to obtain breakthrough time information to determine how long PPE can be used before it needs to be replaced.** Unless specific glove manufacturer data indicates otherwise, the below table is based upon available industry data to assist in the glove selection process and is intended to be used as reference only.

Chemical Glove Material	Thickness	Typical Breakthrough Time
	(mm)	(minutes)
Butyl	0.7	120
Nitrile	0.8	240
Viton Butyl	0.3	240

**Respiratory Protection:** A site-specific risk assessment should be conducted by an Occupational Hygienist or a Safety Professional to determine the type and use of respiratory protective equipment. When a site-specific risk assessment determines that respiratory protection is required, use an approved respirator such as:

# Air purifying respirator -

If an oil mist is generated (dependent upon job activity): use both an organic vapor cartridge & particulate filter (AP3 filter per EN 529:2005).

If airborne concentration limits exceed the applicable occupational exposure limit, but are below the maximum use concentration.

Vapors only: organic vapor cartridge (filter type A3 per EN 529:2005).

Vapors and particulates (including generated mists): both an organic vapor cartridge & particulate filter (AP3 filter per EN 529:2005).

Refer to respirator manufacturers to obtain service life of cartridge / filter.

# Positive pressure air-supplying respirator -

If airborne concentration limits exceed the maximum use concentration offered from an air purifying respirator.

Revision Number: 22 4 of 9 Chevron 1000 THF Revision Date: October 29, 2024 SDS: 7648

If hydrogen sulfide (H2S) airborne concentrations exceed its applicable occupational exposure limits due to this material being heated. For more information on H2S, see Chevron SDS 301.

Refer to EN 529:2005, USA OSHA 1910.134, and/or other applicable local/regional/national/international standards for regulatory requirements.

#### **Occupational Exposure Limits:**

Component	Agency	Form	TWA	STEL	Ceiling	Notation
Highly refined mineral oil (C15 - C50)	ACGIH		5 mg/m3	10 mg/m3		-
Highly refined mineral oil (C15 - C50)	OSHA Z-1		5 mg/m3			

Consult local authorities for appropriate values.

#### **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

Attention: the data below are typical values and do not constitute a specification.

Color: Orange

Physical State: Liquid Odor: Petroleum odor

Odor Threshold: No data available

**pH:** Not Applicable

Vapor Pressure: No data available Relative Vapor Density: No data available Initial Boiling Point: No data available

**Solubility:** Soluble in hydrocarbons; insoluble in water

Freezing Point: Not Applicable

Melting Point: No data available

Particle Characteristics: Not applicable

Density: 0.8799 kg/l @ 15°C (59°F) (Typical)

Kinematic Viscosity: 9.1 mm<sup>2</sup>/s @ 100°C (212°F) (Minimum) Coefficient of Therm. Expansion / °F: No data available

Evaporation Rate: No data available

Decomposition temperature: No data available

Partition coefficient n-octanol/water (logarithmic value): No data available

**FLAMMABLE PROPERTIES:** 

Flammability (solid, gas): Not Applicable

Flashpoint: (Cleveland Open Cup) 200 °C (392 °F) (Minimum)

**Autoignition:** No data available

Flammability (Explosive) Limits (% by volume in air): Lower: Not Applicable Upper: Not

Applicable

## **SECTION 10 STABILITY AND REACTIVITY**

**Reactivity:** May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

Chemical Stability: This material is considered stable under normal ambient and anticipated storage

and handling conditions of temperature and pressure. **Possibility of Hazardous Reactions:** Hazardous polymerization will not occur. May react with strong

acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

Incompatibility With Other Materials: Not applicable

**Revision Number:** 22 5 of 9 **Chevron 1000 THF Revision Date:** October 29, 2024 5 of 9 **Chevron 1000 THF SDS:** 7648

**Hazardous Decomposition Products:** Alkyl Mercaptans (Elevated temperatures), Hydrogen Sulfide (Elevated temperatures)

# **SECTION 11 TOXICOLOGICAL INFORMATION**

## Information on toxicological effects

**Serious Eye Damage/Irritation:** The material is not considered an eye irritant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

**Skin Corrosion/Irritation:** The material is not considered a skin irritant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

**Skin Sensitization:** The material is not considered a skin sensitizer. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

**Acute Dermal Toxicity:** The material is not considered a dermal toxicant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

**Acute Oral Toxicity:** The material is not considered an oral toxicant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

**Acute Inhalation Toxicity:** The material is not considered an inhalation toxicant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components. **Acute Toxicity Estimate:** Not Determined

**Germ Cell Mutagenicity:** The material is not considered a mutagen. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

**Carcinogenicity:** The material is not considered a carcinogen. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

**Reproductive Toxicity:** The material is not considered a reproductive toxicant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

**Specific Target Organ Toxicity - Single Exposure:** The material is not considered a target organ toxicant (single exposure). The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

**Specific Target Organ Toxicity - Repeated Exposure:** The material is not considered a target organ toxicant (repeated exposure). The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

**Aspiration Hazard:** The material is not considered an aspiration hazard.

#### ADDITIONAL TOXICOLOGY INFORMATION:

This product contains petroleum base oils which may be refined by various processes including severe solvent extraction, severe hydrocracking, or severe hydrotreating. None of the oils requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as; carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B).

These oils have not been classified by the American Conference of Governmental Industrial Hygienists (ACGIH) as: confirmed human carcinogen (A1), suspected human carcinogen (A2), or confirmed animal carcinogen with unknown relevance to humans (A3).

Revision Number: 22 6 of 9 Chevron 1000 THF Revision Date: October 29, 2024 SDS: 7648

#### **SECTION 12 ECOLOGICAL INFORMATION**

#### **ECOTOXICITY**

This material is not expected to be harmful to aquatic organisms.

The product has not been tested. The statement has been derived from the properties of the individual components.

#### **MOBILITY**

No data available.

#### PERSISTENCE AND DEGRADABILITY

This material is not expected to be readily biodegradable. The product has not been tested. The statement has been derived from the properties of the individual components.

#### POTENTIAL TO BIOACCUMULATE

Bioconcentration Factor: No data available.

Partition coefficient n-octanol/water (logarithmic value): No data available

#### **SECTION 13 DISPOSAL CONSIDERATIONS**

Use material for its intended purpose or recycle if possible. Oil collection services are available for used oil recycling or disposal. Place contaminated materials in containers and dispose of in a manner consistent with applicable regulations. Contact your sales representative or local environmental or health authorities for approved disposal or recycling methods.

#### SECTION 14 TRANSPORT INFORMATION

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and modespecific or quantity-specific shipping requirements.

DOT Shipping Description: NOT REGULATED AS HAZARDOUS MATERIAL UNDER 49 CFR

IMO/IMDG Shipping Description: NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT UNDER THE IMDG CODE

ICAO/IATA Shipping Description: NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT **UNDER ICAO** 

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code: Not applicable

## **SECTION 15 REGULATORY INFORMATION**

EPCRA 311/312 CATEGORIES: Not applicable

#### **REGULATORY LISTS SEARCHED:**

01-1=IARC Group 1 05=MA RTK 01-2A=IARC Group 2A 06=NJ RTK 01-2B=IARC Group 2B 07=PA RTK 02=NTP Carcinogen 08-1=TSCA 5(e)

**Revision Number: 22** Chevron 1000 THF 7 of 9 Revision Date: October 29, 2024 **SDS**: 7648

03=EPCRA 313 04=CA Proposition 65 08-2=TSCA 12(b)

No components of this material were found on the regulatory lists above.

#### **CHEMICAL INVENTORIES:**

All components comply with the following chemical inventory requirements: AIIC (Australia), DSL (Canada), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (United States).

One or more components does not comply with the following chemical inventory requirements: ENCS (Japan).

#### **NEW JERSEY RTK CLASSIFICATION:**

Under the New Jersey Right-to-Know Act L. 1983 Chapter 315 N.J.S.A. 34:5A-1 et. seq., the product is to be identified as follows: PETROLEUM OIL (Automatic transmission fluid)

# **SECTION 16 OTHER INFORMATION**

NFPA RATINGS: Health: 2 Flammability: 1 Reactivity: 0

**HMIS RATINGS:** Health: 0 Flammability: 1 Reactivity: 0

(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection Equipment Index recommendation, \*- Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

#### **REVISION STATEMENT:**

SECTION 01 - Product Code(s) information was modified.

Revision Date: October 29, 2024

#### ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV - Threshold Limit Value	TWA - Time Weighted Average
STEL - Short-term Exposure Limit	PEL - Permissible Exposure Limit
GHS - Globally Harmonized System	CAS - Chemical Abstract Service Number
ACGIH - American Conference of Governmental	IMO/IMDG - International Maritime Dangerous Goods
Industrial Hygienists	Code
API - American Petroleum Institute	SDS - Safety Data Sheet
HMIS - Hazardous Materials Information System	NFPA - National Fire Protection Association (USA)
DOT - Department of Transportation (USA)	NTP - National Toxicology Program (USA)
IARC - International Agency for Research on	OSHA - Occupational Safety and Health Administration
Cancer	·
NCEL - New Chemical Exposure Limit	EPA - Environmental Protection Agency
SCBA - Self-Contained Breathing Apparatus	PNOS - Particles Not Otherwise Specified

Prepared according to the 29 CFR 1910.1200 (2024) by Chevron.

The information in this SDS is based on the knowledge, information, and belief of Chevron and its affiliates as of the publication date. It is not a quality specification, and no warranty, express or implied, is given. We assume no responsibility or liability for the results of using this material. The information presented here pertains only to the listed product. Since conditions of use are beyond our control, it is the user's responsibility to determine the conditions for safe use of this product and assess its suitability for their

Revision Number: 22 8 of 9 Chevron 1000 THF Revision Date: October 29, 2024 SDS: 7648

application. Users should seek additional guidance if necessary.

Revision Number: 22 9 of 9 Chevron 1000 THF Revision Date: October 29, 2024 SDS: 7648

# **Safety Data Sheet**



#### SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

# **Chevron Automatic Transmission Fluid MD-3**

Product Use: Automotive ATF (Automatic Transmission Fluid)

**Product Number(s):** 219715, 226502

Company Identification
Chevron Products Company
a division of Chevron U.S.A. Inc.
6001 Bollinger Canyon Rd.
San Ramon, CA 94583
United States of America
www.chevronlubricants.com

#### **Transportation Emergency Response**

CHEMTREC: (800) 424-9300 or (703) 527-3887

**Health Emergency** 

Chevron Emergency & Information Center: Located in the USA. International collect calls accepted. (800)

231-0623 or (510) 231-0623

**Product Information** 

email: lubemsds@chevron.com

Product Information: 1 (800) 582-3835, LUBETEK@chevron.com

#### SECTION 2 HAZARDS IDENTIFICATION

#### **CLASSIFICATION:**

- · Acute aquatic toxicant: Category 3.
- · Chronic aquatic toxicant: Category 3.

# **Environmental Hazards:**

Harmful to aquatic life with long lasting effects.

#### PRECAUTIONARY STATEMENTS:

#### Prevention:

· Avoid release to the environment.

#### Disposal:

• Dispose of contents and container in accordance with applicable local, regional, national, and international regulations.

HAZARDS NOT OTHERWISE CLASSIFIED: Not Applicable

# **SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS**

Revision Number: 12 1 of 8 Chevron Automatic Transmission Revision Date: August 06, 2024 Fluid MD-3

Fluid MD-3 SDS: 21

COMPONENTS	CAS NUMBER	AMOUNT
Highly refined mineral oil (C15 - C50)	Mixture	70 - 99 %weight

#### SECTION 4 FIRST AID MEASURES

#### **Description of first aid measures**

**Eye:** No specific first aid measures are required. As a precaution, remove contact lenses, if worn, and flush eyes with water.

**Skin:** No specific first aid measures are required. As a precaution, remove clothing and shoes if contaminated. To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse.

**Ingestion:** No specific first aid measures are required. Do not induce vomiting. As a precaution, get medical advice.

**Inhalation:** No specific first aid measures are required. If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs.

# Most important symptoms and effects, both acute and delayed IMMEDIATE HEALTH EFFECTS

**Eye:** Not expected to cause prolonged or significant eye irritation.

**Skin:** High-Pressure Equipment Information: Accidental high-velocity injection under the skin of materials of this type may result in serious injury. Seek medical attention at once should an accident like this occur. The initial wound at the injection site may not appear to be serious at first; but, if left untreated, could result in disfigurement or amputation of the affected part.

Contact with the skin is not expected to cause prolonged or significant irritation. Contact with the skin is not expected to cause an allergic skin response. Not expected to be harmful to internal organs if absorbed through the skin.

**Ingestion:** Not expected to be harmful if swallowed.

**Inhalation:** Not expected to be harmful if inhaled. Contains a petroleum-based mineral oil. May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recommended mineral oil mist exposure limit. Symptoms of respiratory irritation may include coughing and difficulty breathing.

#### **DELAYED OR OTHER HEALTH EFFECTS:** Not classified

#### Indication of any immediate medical attention and special treatment needed

**Note to Physicians:** In an accident involving high-pressure equipment, this product may be injected under the skin. Such an accident may result in a small, sometimes bloodless, puncture wound. However, because of its driving force, material injected into a fingertip can be deposited into the palm of the hand. Within 24 hours, there is usually a great deal of swelling, discoloration, and intense throbbing pain. Immediate treatment at a surgical emergency center is recommended.

#### SECTION 5 FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames

**Unusual Fire Hazards:** Leaks/ruptures in high pressure system using materials of this type can create a fire hazard when in the vicinity of ignition sources (eg. open flame, pilot lights, sparks, or electric arcs).

#### **PROTECTION OF FIRE FIGHTERS:**

Fire Fighting Instructions: This material will burn although it is not easily ignited. See Section 7 for

Revision Number: 12 2 of 8 Chevron Automatic Transmission Revision Date: August 06, 2024 Fluid MD-3
SDS: 21

proper handling and storage. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus. **Combustion Products:** Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion.

#### SECTION 6 ACCIDENTAL RELEASE MEASURES

**Protective Measures:** Observe all relevant local and international regulations. Eliminate all sources of ignition in vicinity of spilled material. Keep out unnecessary and unprotected personnel. Persons entering the contaminated area to correct the problem or to determine whether it is safe to resume normal activities must comply with all instructions in the Exposure Controls/PersonalProtection section. **Spill Management:** Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

**Reporting:** Report spills to local authorities and/or the U.S. Coast Guard's National Response Center at (800) 424-8802 as appropriate or required.

#### **SECTION 7 HANDLING AND STORAGE**

**General Handling Information:** Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

**Precautionary Measures:** DO NOT USE IN HIGH PRESSURE SYSTEMS in the vicinity of flames, sparks and hot surfaces. Use only in well ventilated areas. Keep container closed. Keep out of the reach of children.

**Static Hazard:** Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating and accumulating an electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures.

**Container Warnings:** Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.

# SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **GENERAL CONSIDERATIONS:**

Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the workplace when designing engineering controls and selecting personal protective equipment (PPE). If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, refer to PPE information below.

Factors that affect PPE include, but are not limited to: properties of the chemical, other chemicals which may contact the same PPE, physical requirements (fit & sizing, cut/puncture protection, dexterity, thermal protection, etc.), and potential allergic reactions to the PPE material. It is the responsibility of the user to

Revision Number: 12 3 of 8 Chevron Automatic Transmission Revision Date: August 06, 2024 Fluid MD-3

Fluid MD-3 SDS: 21 read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances. Refer to appropriate CEN standards.

#### **ENGINEERING CONTROLS:**

Use in a well-ventilated area.

#### PERSONAL PROTECTIVE EQUIPMENT

Eye/Face Protection: Wear protective equipment to prevent eye contact. Selection of protective equipment may include safety glasses, chemical goggles, face shields, or a combination depending on the work operations conducted.

Skin Protection: Wear chemical personal protective equipment (PPE) to prevent skin contact. Selection of chemical protective clothing should be performed by an Occupational Hygienist or Safety Professional and be based upon applicable standards (ASTM F739 or EN 374). Using chemical PPE depends upon operations conducted and may include chemical gloves, boots, chemical apron, chemical suit, and complete facial protection. Refer to PPE manufacturers to obtain breakthrough time information to determine how long PPE can be used before it needs to be replaced. Unless specific glove manufacturer data indicates otherwise, the below table is based upon available industry data to assist in the glove selection process and is intended to be used as reference only.

Chemical Glove Material	Thickness (mm)	Typical Breakthrough Time (minutes)
Butyl	0.7	120
Nitrile	0.8	240
Viton Butyl	0.3	240

**Respiratory Protection:** No respiratory protection is normally required.

If user operations generate an oil mist, determine if airborne concentrations are below the occupational exposure limit for mineral oil mist. If not, wear an approved respirator that provides adequate protection from the measured concentrations of this material. For air-purifying respirators use a particulate cartridge.

Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide adequate protection.

# Occupational Exposure Limits:

Component	Agency	Form	TWA	STEL	Ceiling	Notation
Highly refined mineral oil (C15 - C50)	ACGIH		5 mg/m3	10 mg/m3		
Highly refined mineral oil (C15 - C50)	OSHA Z-1		5 mg/m3			

Consult local authorities for appropriate values.

# SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Attention: the data below are typical values and do not constitute a specification.

Color: Red

Physical State: Liquid Odor: Petroleum odor

Odor Threshold: No data available

**pH:** Not Applicable

Vapor Pressure: No data available Relative Vapor Density: No data available Initial Boiling Point: No data available

**Revision Number: 12** 4 of 8 **Chevron Automatic Transmission** 

**Solubility:** Soluble in hydrocarbons; insoluble in water

Freezing Point: Not Applicable
Melting Point: No data available
Particle Characteristics: Not applicable
Density: 0.8545 kg/l @ 15°C (59°F) (Typical)

Kinematic Viscosity: 6.8 mm2/s @ 100°C (212°F) (Minimum) Coefficient of Therm. Expansion / °F: No data available

**Decomposition temperature:** No data available

Partition coefficient n-octanol/water (logarithmic value): No data available

**FLAMMABLE PROPERTIES:** 

Flammability (solid, gas): No Data Available

Flashpoint: (Cleveland Open Cup) 178 °C (352 °F) (Minimum)

Autoignition: No data available

Flammability (Explosive) Limits (% by volume in air): Lower: Not Applicable Upper: Not

Applicable

#### **SECTION 10 STABILITY AND REACTIVITY**

**Reactivity:** May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

**Chemical Stability:** This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Incompatibility With Other Materials: Not applicable

**Hazardous Decomposition Products:** None known (None expected) **Hazardous Polymerization:** Hazardous polymerization will not occur.

# SECTION 11 TOXICOLOGICAL INFORMATION

#### Information on toxicological effects

**Serious Eye Damage/Irritation:** The material is not considered an eye irritant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

**Skin Corrosion/Irritation:** The material is not considered a skin irritant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

**Skin Sensitization:** The material is not considered a skin sensitizer. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

**Acute Dermal Toxicity:** The material is not considered a dermal toxicant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

**Acute Oral Toxicity:** The material is not considered an oral toxicant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

**Acute Inhalation Toxicity:** The material is not considered an inhalation toxicant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components. **Acute Toxicity Estimate:** Not Determined

**Germ Cell Mutagenicity:** The material is not considered a mutagen. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Carcinogenicity: The material is not considered a carcinogen. The product has not been tested. The

Revision Number: 12 5 of 8 Chevron Automatic Transmission

Fluid MD-3 SDS: 21 statement is based on evaluation of data for similar materials or product components.

**Reproductive Toxicity:** The material is not considered a reproductive toxicant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

**Specific Target Organ Toxicity - Single Exposure:** The material is not considered a target organ toxicant (single exposure). The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

**Specific Target Organ Toxicity - Repeated Exposure:** The material is not considered a target organ toxicant (repeated exposure). The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

**Aspiration Hazard:** The material is not considered an aspiration hazard.

#### **ADDITIONAL TOXICOLOGY INFORMATION:**

This product contains petroleum base oils which may be refined by various processes including severe solvent extraction, severe hydrocracking, or severe hydrotreating. None of the oils requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as; carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B).

These oils have not been classified by the American Conference of Governmental Industrial Hygienists (ACGIH) as: confirmed human carcinogen (A1), suspected human carcinogen (A2), or confirmed animal carcinogen with unknown relevance to humans (A3).

# **SECTION 12 ECOLOGICAL INFORMATION**

#### **ECOTOXICITY**

This material is expected to be harmful to aquatic organisms and may cause long-term adverse effects in the aquatic environment.

The product has not been tested. The statement has been derived from the properties of the individual components.

#### **MOBILITY**

No data available.

## PERSISTENCE AND DEGRADABILITY

This material is not expected to be readily biodegradable. The product has not been tested. The statement has been derived from the properties of the individual components.

#### POTENTIAL TO BIOACCUMULATE

Bioconcentration Factor: No data available.

Partition coefficient n-octanol/water (logarithmic value): No data available

# **SECTION 13 DISPOSAL CONSIDERATIONS**

Use material for its intended purpose or recycle if possible. Oil collection services are available for used oil recycling or disposal. Place contaminated materials in containers and dispose of in a manner consistent with applicable regulations. Contact your sales representative or local environmental or health authorities for approved disposal or recycling methods.

Revision Number: 12 6 of 8 Chevron Automatic Transmission Revision Date: August 06, 2024 Fluid MD-3

Fluid MD-3 SDS: 21

# SECTION 14 TRANSPORT INFORMATION

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

DOT Shipping Description: NOT REGULATED AS HAZARDOUS MATERIAL UNDER 49 CFR

IMO/IMDG Shipping Description: NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT UNDER THE IMDG CODE

ICAO/IATA Shipping Description: NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT UNDER ICAO

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code: Not applicable

#### **SECTION 15 REGULATORY INFORMATION**

**EPCRA 311/312 CATEGORIES:** Not applicable

#### **REGULATORY LISTS SEARCHED:**

 01-1=IARC Group 1
 05=MA RTK

 01-2A=IARC Group 2A
 06=NJ RTK

 01-2B=IARC Group 2B
 07=PA RTK

 02=NTP Carcinogen
 08-1=TSCA 5(e)

 03=EPCRA 313
 08-2=TSCA 12(b)

04=CA Proposition 65

No components of this material were found on the regulatory lists above.

#### **CHEMICAL INVENTORIES:**

All components comply with the following chemical inventory requirements: AIIC (Australia), DSL (Canada), ENCS (Japan), IECSC (China), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (United States).

One or more components is listed on ELINCS (European Union). All other components are listed or exempted from listing on EINECS.

# **NEW JERSEY RTK CLASSIFICATION:**

Under the New Jersey Right-to-Know Act L. 1983 Chapter 315 N.J.S.A. 34:5A-1 et. seq., the product is to be identified as follows: PETROLEUM OIL (Automatic transmission fluid)

# **SECTION 16 OTHER INFORMATION**

NFPA RATINGS: Health: 0 Flammability: 1 Reactivity: 0

**HMIS RATINGS:** Health: 0 Flammability: 1 Reactivity: 0

(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection Equipment Index

Revision Number: 12 7 of 8 Chevron Automatic Transmission
Revision Date: August 06, 2024 Fluid MD-3
SDS: 21

recommendation, \*- Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

#### **REVISION STATEMENT:**

SECTION 02 - Precautionary Statements information was modified.

SECTION 06 - Personal Precautions, Protective Equipment and Emergency Procedures information was modified.

SECTION 08 - Skin Protection information was modified.

SECTION 09 - Physical/Chemical Properties information was modified.

Revision Date: August 06, 2024

#### ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV - Threshold Limit Value	TWA - Time Weighted Average
STEL - Short-term Exposure Limit	PEL - Permissible Exposure Limit
GHS - Globally Harmonized System	CAS - Chemical Abstract Service Number
ACGIH - American Conference of Governmental	IMO/IMDG - International Maritime Dangerous Goods
Industrial Hygienists	Code
API - American Petroleum Institute	SDS - Safety Data Sheet
HMIS - Hazardous Materials Information System	NFPA - National Fire Protection Association (USA)
DOT - Department of Transportation (USA)	NTP - National Toxicology Program (USA)
IARC - International Agency for Research on	OSHA - Occupational Safety and Health Administration
Cancer	•
NCEL - New Chemical Exposure Limit	EPA - Environmental Protection Agency
SCBA - Self-Contained Breathing Apparatus	PNOS - Particles Not Otherwise Specified

Prepared according to the 29 CFR 1910.1200 (2012) by Chevron.

The information in this SDS is based on the knowledge, information, and belief of Chevron and its affiliates as of the publication date. It is not a quality specification, and no warranty, express or implied, is given. We assume no responsibility or liability for the results of using this material. The information presented here pertains only to the listed product. Since conditions of use are beyond our control, it is the user's responsibility to determine the conditions for safe use of this product and assess its suitability for their application. Users should seek additional guidance if necessary.

**Revision Number: 12** 8 of 8 **Chevron Automatic Transmission** 

Revision Date: August 06, 2024

# Safety Data Sheet



# SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

# **Chevron Heavy Duty PF Green Antifreeze/Coolant - Premixed 50/50**

Product Use: Heavy Duty Coolant
Product Number(s): 275113
Company Identification
Chevron Products Company
a division of Chevron U.S.A. Inc.
6001 Bollinger Canyon Rd.
San Ramon, CA 94583
United States of America
www.chevronlubricants.com

#### **Transportation Emergency Response**

CHEMTREC: (800) 424-9300 or (703) 527-3887

**Health Emergency** 

Chevron Emergency & Information Center: Located in the USA. International collect calls accepted. (800) 231-

0623 or (510) 231-0623 **Product Information** 

email: lubemsds@chevron.com

Product Information: 1 (800) 582-3835, LUBETEK@chevron.com

# SECTION 2 HAZARDS IDENTIFICATION

**CLASSIFICATION:** Target organ toxicant (repeated exposure): Category 2.



Signal Word: Warning

Target Organs: May cause damage to organs (Kidney) through prolonged or repeated exposure.

#### PRECAUTIONARY STATEMENTS:

**Prevention:** Do not breathe dust/fume/gas/mist/vapours/spray. **Response:** Get medical advice/attention if you feel unwell.

**Disposal:** Dispose of contents/container in accordance with applicable local/regional/national/international

regulations.

HAZARDS NOT OTHERWISE CLASSIFIED: Not Applicable

# SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Revision Number: 8 Chevron Heavy Duty PF Green
Revision Date: April 10, 2020 Chevron Heavy Duty PF Green
Antifreeze/Coolant - Premixed 50/50

COMPONENTS	CAS NUMBER	AMOUNT
Ethylene Glycol	107-21-1	34 - < 80 %weight
Sodium tetraborate, pentahydrate	12179-04-3	0.1 - < 1 %weight

#### SECTION 4 FIRST AID MEASURES

#### **Description of first aid measures**

Eye: No specific first aid measures are required. As a precaution, remove contact lenses, if worn, and flush eyes with water.

**Skin:** No specific first aid measures are required. As a precaution, remove clothing and shoes if contaminated. To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse.

**Ingestion:** If swallowed, get immediate medical attention. Do not induce vomiting. Never give anything by mouth to an unconscious person.

**Inhalation:** Move the exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if breathing difficulties continue.

# Most important symptoms and effects, both acute and delayed IMMEDIATE HEALTH EFFECTS

Eye: Not expected to cause prolonged or significant eye irritation.

**Skin:** Contact with the skin is not expected to cause prolonged or significant irritation. Contact with the skin is not expected to cause an allergic skin response. Not expected to be harmful to internal organs if absorbed through the skin.

**Ingestion:** May be harmful if swallowed.

**Inhalation:** Breathing this material at concentrations above the recommended exposure limits may cause central nervous system effects. Central nervous system effects may include headache, dizziness, nausea, vomiting, weakness, loss of coordination, blurred vision, drowsiness, confusion, or disorientation. At extreme exposures, central nervous system effects may include respiratory depression, tremors or convulsions, loss of consciousness, coma or death. If this material is heated, fumes may be unpleasant and produce nausea and irritation of the eye and upper respiratory tract.

#### **DELAYED OR OTHER HEALTH EFFECTS:**

**Target Organs:** Contains material that may cause damage to the following organ(s) following repeated inhalation at concentrations above the recommended exposure limit: Kidney See Section 11 for additional information. Risk depends on duration and level of exposure.

Indication of any immediate medical attention and special treatment needed Not Applicable

# SECTION 5 FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Dry Chemical, CO2, Aqueous Film Forming Foam (AFFF) or alcohol resistant foam.

# PROTECTION OF FIRE FIGHTERS:

**Fire Fighting Instructions:** This material will burn although it is not easily ignited. See Section 7 for proper handling and storage. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

**Combustion Products:** Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion.

# SECTION 6 ACCIDENTAL RELEASE MEASURES

Revision Number: 8 2 of 7 Chevron Heavy Duty PF Green
Revision Date: April 10, 2020 2 of 7 Antifreeze/Coolant - Premixed 50/50

**Protective Measures:** Eliminate all sources of ignition in vicinity of spilled material.

**Spill Management:** Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations. **Reporting:** Report spills to local authorities and/or the U.S. Coast Guard's National Response Center at (800) 424-8802 as appropriate or required.

# SECTION 7 HANDLING AND STORAGE

**General Handling Information:** Do not taste or swallow antifreeze or solution. Keep out of the reach of children and animals.

**Precautionary Measures:** Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Do not breathe vapor or fumes. Wash thoroughly after handling. Keep out of the reach of children.

Static Hazard: Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating and accumulating an electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures. Container Warnings: Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.

**General Storage Information:** Do not store in open or unlabeled containers.

# SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **GENERAL CONSIDERATIONS:**

Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

#### **ENGINEERING CONTROLS:**

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below the recommended exposure limits. Use in a well-ventilated area.

#### PERSONAL PROTECTIVE EQUIPMENT

**Eye/Face Protection:** No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.

**Skin Protection:** No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances in the workplace. Suggested materials for protective gloves include: Natural rubber, Neoprene, Nitrile Rubber, Polyvinyl Chloride (PVC or Vinyl).

**Respiratory Protection:** Determine if airborne concentrations are below the recommended occupational exposure limits for jurisdiction of use. If airborne concentrations are above the acceptable limits, wear an approved respirator that provides adequate protection from this material, such as: Air-Purifying Respirator for Organic Vapors, Dusts and Mists.

Revision Number: 8
Revision Date: April 10, 2020

3 of 7

Chevron Heavy Duty PF Green
Antifreeze/Coolant - Premixed 50/50

Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide adequate protection.

**Occupational Exposure Limits:** 

Component	Agency	Form	TWA	STEL	Ceiling	Notation
Ethylene Glycol	ACGIH	Inhalable aerosol		10 mg/m3		
Ethylene Glycol	ACGIH	Vapor fraction	25 ppm	50 ppm		
Ethylene Glycol	ACGIH		.01 ppm		-	Skin
Sodium tetraborate, pentahydrate	ACGIH	Inhalable fraction	2 mg/m3	6 mg/m3		
Sodium tetraborate, pentahydrate	ACGIH		1 mg/m3			

Consult local authorities for appropriate values.

#### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Attention: the data below are typical values and do not constitute a specification.

Color: Green

**Physical State:** Liquid **Odor:** Faint or Mild

**Odor Threshold:** No data available

**pH:** 11 Maximum

Vapor Pressure: No data available

**Vapor Density (Air = 1):** No data available

**Initial Boiling Point:** 109°C (228.2°F) (Estimated)

**Solubility:** Soluble in water.

**Freezing Point:** -36.4°C (-33.5°F) Maximum

**Melting Point:** Not Applicable

**Specific Gravity:** 1.0740 @ 15.6°C (60.1°F) (Typical)

**Density:** 1.0283 kg/l @ 15°C (59°F) (Typical)

Viscosity: No data available

**Evaporation Rate:** No data available

**Decomposition temperature:** No data available **Octanol/Water Partition Coefficient:** No data available

FLAMMABLE PROPERTIES:

Flammability (solid, gas): No Data Available

Flashpoint: Not Applicable

**Autoignition:** No data available

Flammability (Explosive) Limits (% by volume in air): Lower: No data available Upper: No data

available

#### SECTION 10 STABILITY AND REACTIVITY

**Reactivity:** May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc. **Chemical Stability:** This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

**Incompatibility With Other Materials:** Not applicable

**Hazardous Decomposition Products:** Aldehydes (Elevated temperatures), Ketones (Elevated temperatures)

**Hazardous Polymerization:** Hazardous polymerization will not occur.

Revision Number: 8 4 of 7 Chevron Heavy Duty PF Green
Revision Date: April 10, 2020 SDS: 23726

#### SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Serious Eye Damage/Irritation: The eye irritation hazard is based on evaluation of data for product components.

Skin Corrosion/Irritation: The skin irritation hazard is based on evaluation of data for product components.

**Skin Sensitization:** The skin sensitization hazard is based on evaluation of data for product components.

**Acute Dermal Toxicity:** The acute dermal toxicity hazard is based on evaluation of data for product components.

**Acute Oral Toxicity:** The acute oral toxicity hazard is based on evaluation of data for product components.

Acute Inhalation Toxicity: The acute inhalation toxicity hazard is based on evaluation of data for product

components.

Acute Toxicity Estimate: Not Determined

Germ Cell Mutagenicity: The hazard evaluation is based on data for components or a similar material.

**Carcinogenicity:** The hazard evaluation is based on data for components or a similar material.

Reproductive Toxicity: The hazard evaluation is based on data for components or a similar material.

**Specific Target Organ Toxicity - Single Exposure:** The hazard evaluation is based on data for components or a similar material.

**Specific Target Organ Toxicity - Repeated Exposure:** The hazard evaluation is based on data for components or a similar material

# ADDITIONAL TOXICOLOGY INFORMATION:

This product contains ethylene glycol (EG). The toxicity of EG via inhalation or skin contact is expected to be slight at room temperature. The estimated oral lethal dose is about 100 cc (3.3 oz.) for an adult human. Ethylene glycol is oxidized to oxalic acid which results in the deposition of calcium oxalate crystals mainly in the brain and kidneys. Early signs and symptoms of EG poisoning may resemble those of alcohol intoxication. Later, the victim may experience nausea, vomiting, weakness, abdominal and muscle pain, difficulty in breathing and decreased urine output. When EG was heated above the boiling point of water, vapors formed which reportedly caused unconsciousness, increased lymphocyte count, and a rapid, jerky movement of the eyes in persons chronically exposed. When EG was administered orally to pregnant rats and mice, there was an increase in fetal deaths and birth defects. Some of these effects occurred at doses that had no toxic effects on the mothers. We are not aware of any reports that EG causes reproductive toxicity in human beings.

# SECTION 12 ECOLOGICAL INFORMATION

#### **ECOTOXICITY**

This material is not expected to be harmful to aquatic organisms.

The product has not been tested. The statement has been derived from the properties of the individual components.

#### **MOBILITY**

No data available.

#### PERSISTENCE AND DEGRADABILITY

This material is expected to be readily biodegradable. The biodegradability of this material is based on an evaluation of data for the components or a similar material.

The product has not been tested. The statement has been derived from the properties of the individual components.

Revision Number: 8 Fevision Date: April 10, 2020 Sp. 23726

Chevron Heavy Duty PF Green
Antifreeze/Coolant - Premixed 50/50
Sp. 23726

#### POTENTIAL TO BIOACCUMULATE

Bioconcentration Factor: No data available.

Octanol/Water Partition Coefficient: No data available

# SECTION 13 DISPOSAL CONSIDERATIONS

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by international, country, or local laws and regulations.

#### SECTION 14 TRANSPORT INFORMATION

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

**DOT Shipping Description:** PROPRIETARY ANTIFREEZE PREPARATION IN NON-BULK PACKAGING; NOT REGULATED FOR TRANSPORT UNDER 49 CFR.

**Additional Information:** Bulk shipments containing a reportable quantity (RQ, 5000 pounds or more) of ethylene glycol in a single packaging are transported as hazardous material. The shipping description is: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ETHYLENE GLYCOL CONTAINS BITTERANT), 9, III, RQ (ETHYLENE GLYCOL)

**IMO/IMDG Shipping Description:** NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT UNDER THE IMDG CODE

ICAO/IATA Shipping Description: NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT UNDER ICAO

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code: Not applicable

#### SECTION 15 REGULATORY INFORMATION

#### **EPCRA 311/312 CATEGORIES:**

Specific target organ toxicity (single or repeated exposure)

#### **REGULATORY LISTS SEARCHED:**

 01-1=IARC Group 1
 03=EPCRA 313

 01-2A=IARC Group 2A
 04=CA Proposition 65

 01-2B=IARC Group 2B
 05=MA RTK

 02=NTP Carcinogen
 06=NJ RTK

 07=PA RTK

The following components of this material are found on the regulatory lists indicated. Ethylene Glycol 04, 07

# **CHEMICAL INVENTORIES:**

All components comply with the following chemical inventory requirements: AICS (Australia), DSL (Canada), EINECS (European Union), IECSC (China), KECI (Korea), PICCS (Philippines), TSCA (United States).

One or more components does not comply with the following chemical inventory requirements: ENCS (Japan).

Revision Number: 8
Revision Date: April 10, 2020

6 of 7
Chevron Heavy Duty PF Green
Antifreeze/Coolant - Premixed 50/50
SDS: 23726

#### **NEW JERSEY RTK CLASSIFICATION:**

Under the New Jersey Right-to-Know Act L. 1983 Chapter 315 N.J.S.A. 34:5A-1 et. seq., the product is to be identified as follows: Refer to components listed in Section 3.

#### **SECTION 16 OTHER INFORMATION**

**NFPA RATINGS:** Health: 0 Flammability: 1 Reactivity: 0

**HMIS RATINGS:** Health: 0\* Flammability: 1 Reactivity: 0

(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection Equipment Index recommendation, \*-Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

# **REVISION STATEMENT:** SECTION 01 - Company MSDS Address information was modified.

SECTION 02 - Hazards Otherwise Not Classified information was modified.

SECTION 02 - Pictogram information was modified.

SECTION 08 - General Considerations information was modified.

SECTION 08 - Occupational Exposure Limit Table information was modified.

SECTION 09 - Physical/Chemical Properties information was modified.

SECTION 11 - Additional Toxicology Information information was modified.

SECTION 12 - Ecological Information information was modified.

SECTION 13 - Disposal Considerations information was modified.

SECTION 15 - Chemical Inventories information was modified.

SECTION 15 - New Jersey Right To Know information was modified.

Revision Date: April 10, 2020

#### ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV - Threshold Limit Value	TWA - Time Weighted Average
STEL - Short-term Exposure Limit	PEL - Permissible Exposure Limit
GHS - Globally Harmonized System	CAS - Chemical Abstract Service Number
ACGIH - American Conference of Governmental	IMO/IMDG - International Maritime Dangerous
Industrial Hygienists	Goods Code
API - American Petroleum Institute	SDS - Safety Data Sheet
HMIS - Hazardous Materials Information System	NFPA - National Fire Protection Association (USA)
DOT - Department of Transportation (USA)	NTP - National Toxicology Program (USA)
IARC - International Agency for Research on	OSHA - Occupational Safety and Health
Cancer	Administration
NCEL - New Chemical Exposure Limit	EPA - Environmental Protection Agency
SCBA - Self-Contained Breathing Apparatus	

Prepared according to the 29 CFR 1910.1200 (2012) by Chevron Energy Technology Company, 6001 Bollinger Canyon Road, San Ramon, CA 94583.

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

Revision Number: 8 7 of 7 Chevron Heavy Duty PF Green
Revision Date: April 10, 2020 Antifreeze/Coolant - Premixed 50/50

# **Safety Data Sheet**



# SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

# **Delo 400 SDE SAE 15W-40**

Product Use: Heavy Duty Motor Oil

**Product Number(s):** 219960, 222290, 278085

Synonyms: Delo 400 SDE SAE 15W-40 ISOCLEAN Certified

Company Identification
Chevron Products Company
a division of Chevron U.S.A. Inc.
6001 Bollinger Canyon Rd.
San Ramon, CA 94583
United States of America
www.chevronlubricants.com

#### **Transportation Emergency Response**

CHEMTREC: (800) 424-9300 or (703) 527-3887

**Health Emergency** 

Chevron Emergency & Information Center: Located in the USA. International collect calls accepted.

(800) 231-0623 or (510) 231-0623

**Product Information** 

email: lubemsds@chevron.com

Product Information: 1 (800) 582-3835, LUBETEK@chevron.com

# **SECTION 2 HAZARDS IDENTIFICATION**

#### **CLASSIFICATION:**

Not classified as hazardous according to 29 CFR 1910.1200 (2012).

HAZARDS NOT OTHERWISE CLASSIFIED: Not Applicable

# **SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS**

COMPONENTS	CAS NUMBER	AMOUNT
Highly refined mineral oil (C15 - C50)	Mixture	70 - 99 %weight
Paraffin oils (petroleum), catalytic dewaxed light	64742-71-8	0 - 10 %weight

# **SECTION 4 FIRST AID MEASURES**

# Description of first aid measures

**Eye:** No specific first aid measures are required. As a precaution, remove contact lenses, if worn, and flush eyes with water.

**Skin:** No specific first aid measures are required. As a precaution, remove clothing and shoes if contaminated. To remove the material from skin, use soap and water. Discard contaminated clothing

 Revision Number:
 9
 1
 of
 8
 Delo 400 SDE SAE 15W-40

 Revision Date:
 May 12, 2022
 SDS:
 42671

and shoes or thoroughly clean before reuse.

**Ingestion:** No specific first aid measures are required. Do not induce vomiting. As a precaution, get medical advice.

**Inhalation:** No specific first aid measures are required. If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs. If exposure to hydrogen sulfide (H2S) gas is possible during an emergency, wear an approved, positive pressure air-supplying respirator. Move the exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

# Most important symptoms and effects, both acute and delayed **IMMEDIATE HEALTH EFFECTS**

**Eye:** Not expected to cause prolonged or significant eye irritation.

**Skin:** Contact with the skin is not expected to cause prolonged or significant irritation. Contact with the skin is not expected to cause an allergic skin response. Not expected to be harmful to internal organs if absorbed through the skin.

**Ingestion:** Not expected to be harmful if swallowed.

**Inhalation:** Not expected to be harmful if inhaled. Contains a petroleum-based mineral oil. May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recommended mineral oil mist exposure limit. Symptoms of respiratory irritation may include coughing and difficulty breathing. Hydrogen sulfide has a strong rotten-egg odor. However, with continued exposure and at high levels, H2S may deaden a person's sense of smell. If the rotten egg odor is no longer noticeable, it may not necessarily mean that exposure has stopped. At low levels, hydrogen sulfide causes irritation of the eyes, nose, and throat. Moderate levels can cause headache, dizziness, nausea, and vomiting, as well as coughing and difficulty breathing. Higher levels can cause shock, convulsions, coma, and death. After a serious exposure, symptoms usually begin immediately.

The U.S. National Institute for Occupational Safety and Health (NIOSH) considers air concentrations of hydrogen sulfide gas greater than 100 ppm to be Immediately Dangerous to Life and Health (IDLH).

# **DELAYED OR OTHER HEALTH EFFECTS:** Not classified

#### Indication of any immediate medical attention and special treatment needed

Note to Physicians: Administration of 100% oxygen and supportive care is the preferred treatment for poisoning by hydrogen sulfide gas. For additional information on H2S, see Chevron SDS No. 301.

#### **SECTION 5 FIRE FIGHTING MEASURES**

**EXTINGUISHING MEDIA:** Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

# **PROTECTION OF FIRE FIGHTERS:**

Fire Fighting Instructions: This material will burn although it is not easily ignited. See Section 7 for proper handling and storage. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

**Combustion Products:** Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion. Combustion may form oxides of: Boron, Nitrogen, Phosphorus, Sulfur, Zinc.

# **SECTION 6 ACCIDENTAL RELEASE MEASURES**

Protective Measures: Eliminate all sources of ignition in vicinity of spilled material. **Spill Management:** Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible.

Revision Number: 9 Delo 400 SDE SAE 15W-40 of Revision Date: May 12, 2022

observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

**Reporting:** Report spills to local authorities and/or the U.S. Coast Guard's National Response Center at (800) 424-8802 as appropriate or required.

# SECTION 7 HANDLING AND STORAGE

**General Handling Information:** Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

**Precautionary Measures:** Do not breathe gas. Wash thoroughly after handling. Keep out of the reach of children.

**Unusual Handling Hazards:** Toxic quantities of hydrogen sulfide (H2S) may be present in storage tanks and bulk transport vessels which contain or have contained this material. Persons opening or entering these compartments should first determine if H2S is present. See Exposure Controls/Personal Protection -Section 8. Do not attempt rescue of a person over exposed to H2S without wearing approved supplied-air or self-contained breathing equipment. If there is a potential for exceeding one-half the occupational exposure standard, monitoring of hydrogen sulfide levels is required. Since the sense of smell cannot be relied upon to detect the presence of H2S, the concentration should be measured by the use of fixed or portable devices.

**Static Hazard:** Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating and accumulating an electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures.

**Container Warnings:** Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.

# SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

### **GENERAL CONSIDERATIONS:**

Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

#### **ENGINEERING CONTROLS:**

Use in a well-ventilated area.

# PERSONAL PROTECTIVE EQUIPMENT

**Eye/Face Protection:** No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.

**Skin Protection:** No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances in the workplace. Suggested materials for protective gloves include: 4H (PE/EVAL), Nitrile Rubber, Silver Shield. Viton.

**Respiratory Protection:** No respiratory protection is normally required.

Revision Number: 9 3 of 8 Delo 400 SDE SAE 15W-40

**Revision Date**: May 12, 2022 SDS: 42671

If material is heated and emits hydrogen sulfide, determine if airborne concentrations are below the occupational exposure limit for hydrogen sulfide. If not, wear an approved positive pressure airsupplying respirator. For more information on hydrogen sulfide, see Chevron SDS No. 301. If user operations generate an oil mist, determine if airborne concentrations are below the occupational exposure limit for mineral oil mist. If not, wear an approved respirator that provides adequate protection from the measured concentrations of this material. For air-purifying respirators use a particulate cartridge. Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide adequate protection.

# Occupational Exposure Limits:

Component	Agency	Form	TWA	STEL	Ceiling	Notation
Highly refined mineral oil (C15 - C50)	ACGIH	1	5 mg/m3	10 mg/m3	1	
Highly refined mineral oil (C15 - C50)	OSHA Z-1		5 mg/m3			
Paraffin oils (petroleum), catalytic dewaxed light	ACGIH	Inhalable fraction	5 mg/m3			
Paraffin oils (petroleum), catalytic dewaxed light	OSHA Z-1	Mist	5 mg/m3			

Consult local authorities for appropriate values.

#### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Attention: the data below are typical values and do not constitute a specification.

Color: Brown to yellow Physical State: Liquid Odor: Petroleum odor

Odor Threshold: No data available

pH: Not Applicable

Vapor Pressure: No data available

Vapor Density (Air = 1): No data available **Initial Boiling Point:** No data available

Solubility: Soluble in hydrocarbons; insoluble in water

Freezing Point: No data available **Melting Point:** No data available

Density: 0.8737 kg/l - 0.879 kg/l @ 15°C (59°F) (Typical) 110 mm2/s - 112 mm2/s @ 40°C (104°F) (Typical) Viscosity: Coefficient of Therm. Expansion / °F: No data available

No data available **Evaporation Rate:** 

**Decomposition temperature:** No data available Octanol/Water Partition Coefficient: No data available

FLAMMABLE PROPERTIES:

Flammability (solid, gas): Not Applicable

Flashpoint: (Cleveland Open Cup) 204 °C (399 °F) (Minimum)

**Autoignition:** No data available

Flammability (Explosive) Limits (% by volume in air): Lower: Not Applicable Upper: Not

**Applicable** 

# **SECTION 10 STABILITY AND REACTIVITY**

Reactivity: May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

Revision Number: 9 Delo 400 SDE SAE 15W-40 of **SDS**: 42671

Revision Date: May 12, 2022

**Chemical Stability:** This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Incompatibility With Other Materials: Not applicable

Hazardous Decomposition Products: Alkyl Mercaptans (Elevated temperatures), Hydrogen Sulfide

(Elevated temperatures)

**Hazardous Polymerization:** Hazardous polymerization will not occur.

# SECTION 11 TOXICOLOGICAL INFORMATION

#### Information on toxicological effects

**Serious Eye Damage/Irritation:** The material is not considered an eye irritant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

**Skin Corrosion/Irritation:** The material is not considered a skin irritant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

**Skin Sensitization:** The material is not considered a skin sensitizer. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

**Acute Dermal Toxicity:** The material is not considered a dermal toxicant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

**Acute Oral Toxicity:** The material is not considered an oral toxicant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

**Acute Inhalation Toxicity:** The material is not considered an inhalation toxicant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components. **Acute Toxicity Estimate:** Not Determined

**Germ Cell Mutagenicity:** The material is not considered a mutagen. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

**Carcinogenicity:** The material is not considered a carcinogen. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

**Reproductive Toxicity:** The material is not considered a reproductive toxicant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

**Specific Target Organ Toxicity - Single Exposure:** The material is not considered a target organ toxicant (single exposure). The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

**Specific Target Organ Toxicity - Repeated Exposure:** The material is not considered a target organ toxicant (repeated exposure). The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

**Aspiration Hazard:** The material is not considered an aspiration hazard.

# ADDITIONAL TOXICOLOGY INFORMATION:

During use in engines, contamination of oil with low levels of cancer-causing combustion products occurs. Used motor oils have been shown to cause skin cancer in mice following repeated application and continuous exposure. Brief or intermittent skin contact with used motor oil is not expected to have serious effects in humans if the oil is thoroughly removed by washing with soap and water.

This product contains petroleum base oils which may be refined by various processes including severe solvent extraction, severe hydrocracking, or severe hydrotreating. None of the oils requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the

 Revision Number:
 9
 5
 of 8
 8
 Delo 400 SDE SAE 15W-40

 Revision Date:
 May 12, 2022
 SDS: 42671

International Agency for Research on Cancer (IARC) as; carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B).

These oils have not been classified by the American Conference of Governmental Industrial Hygienists (ACGIH) as: confirmed human carcinogen (A1), suspected human carcinogen (A2), or confirmed animal carcinogen with unknown relevance to humans (A3).

#### **SECTION 12 ECOLOGICAL INFORMATION**

#### **ECOTOXICITY**

This material is not expected to be harmful to aquatic organisms.

The product has not been tested. The statement has been derived from the properties of the individual components.

#### **MOBILITY**

No data available.

#### PERSISTENCE AND DEGRADABILITY

This material is not expected to be readily biodegradable. The biodegradability of this material is based on an evaluation of data for the components or a similar material.

The product has not been tested. The statement has been derived from the properties of the individual components.

#### POTENTIAL TO BIOACCUMULATE

Bioconcentration Factor: No data available.

Octanol/Water Partition Coefficient: No data available

# **SECTION 13 DISPOSAL CONSIDERATIONS**

Use material for its intended purpose or recycle if possible. Oil collection services are available for used oil recycling or disposal. Place contaminated materials in containers and dispose of in a manner consistent with applicable regulations. Contact your sales representative or local environmental or health authorities for approved disposal or recycling methods.

#### **SECTION 14 TRANSPORT INFORMATION**

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

**DOT Shipping Description:** NOT REGULATED AS HAZARDOUS MATERIAL UNDER 49 CFR

IMO/IMDG Shipping Description: NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT UNDER THE IMDG CODE

ICAO/IATA Shipping Description: NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT UNDER ICAO

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code: Not applicable

#### SECTION 15 REGULATORY INFORMATION

EPCRA 311/312 CATEGORIES: Not applicable

Revision Number: 9 6 of 8 Delo 400 SDE SAE 15W-40

**Revision Date:** May 12, 2022 SDS: 42671

#### **REGULATORY LISTS SEARCHED:**

01-1=IARC Group 1 05=MA RTK 01-2A=IARC Group 2A 06=NJ RTK 01-2B=IARC Group 2B 07=PA RTK 02=NTP Carcinogen 08-1=TSCA 5(e) 03=EPCRA 313 08-2=TSCA 12(b)

04=CA Proposition 65

The following components of this material are found on the regulatory lists indicated.

Paraffin oils (petroleum), catalytic dewaxed light 05.06.07

#### **CHEMICAL INVENTORIES:**

All components comply with the following chemical inventory requirements: DSL (Canada), TSCA (United States).

One or more components does not comply with the following chemical inventory requirements: EINECS (European Union), ENCS (Japan), IECSC (China), KECI (Korea).

#### **NEW JERSEY RTK CLASSIFICATION:**

Under the New Jersey Right-to-Know Act L. 1983 Chapter 315 N.J.S.A. 34:5A-1 et. seq., the product is to be identified as follows: PETROLEUM OIL (Motor oil)

# **SECTION 16 OTHER INFORMATION**

**NFPA RATINGS:** Health: 2 Flammability: 1 Reactivity:

**HMIS RATINGS:** Health: 0 Flammability: 1 Reactivity: 0

(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection Equipment Index recommendation, \*- Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

REVISION STATEMENT: SECTION 02 - Environmental Classification information was deleted.

SECTION 02 - Hazard Statements information was deleted.

SECTION 02 - Hazards Otherwise Not Classified information was modified.

SECTION 02 - Health Classification information was deleted.

SECTION 02 - Pictogram information was deleted.

SECTION 02 - Precautionary Statements information was deleted.

SECTION 02 - Signal Word information was deleted.

SECTION 03 - Composition information was modified.

SECTION 04 - First Aid - Eye information was modified.

SECTION 04 - Immediate Health Effects - Eye information was modified.

SECTION 07 - Precautionary Measures information was modified.

SECTION 08 - Eve/Face Protection information was modified.

SECTION 11 - Toxicological Information information was modified.

SECTION 12 - Ecological Information information was modified.

SECTION 15 - Regulatory Information information was modified.

SECTION 15 - SARA 311 EPCRA Score information was added.

SECTION 15 - SARA 311 EPCRA Score information was deleted.

SECTION 16 - HMIS Rating information was modified.

Revision Date: May 12, 2022

Revision Number: 9 Delo 400 SDE SAE 15W-40 of

Revision Date: May 12, 2022 **SDS**: 42671

# ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV - Threshold Limit Value	TWA - Time Weighted Average
STEL - Short-term Exposure Limit	PEL - Permissible Exposure Limit
GHS - Globally Harmonized System	CAS - Chemical Abstract Service Number
ACGIH - American Conference of	IMO/IMDG - International Maritime Dangerous
Governmental Industrial Hygienists	Goods Code
API - American Petroleum Institute	SDS - Safety Data Sheet
HMIS - Hazardous Materials Information	NFPA - National Fire Protection Association
System	(USA)
DOT - Department of Transportation (USA)	NTP - National Toxicology Program (USA)
IARC - International Agency for Research on	OSHA - Occupational Safety and Health
Cancer	Administration
NCEL - New Chemical Exposure Limit	EPA - Environmental Protection Agency
SCBA - Self-Contained Breathing Apparatus	

Prepared according to the 29 CFR 1910.1200 (2012) by Chevron Technical Center, 6001 Bollinger Canyon Road, San Ramon, CA 94583.

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

 Revision Number:
 9
 8
 of 8
 Delo 400 SDE SAE 15W-40

 Revision Date:
 May 12, 2022
 SDS: 42671

# Safety Data Sheet



#### **SECTION 1 IDENTIFICATION**

# Delo Gear EP-5 SAE 80W-90, 85W-140

Recommended Use: Axle Oil

**Restrictions on Use:** Consult supplier when used other than those specified.

Other means of identification: Delo Gear EP-5 SAE 80W-90, Delo Gear EP-5 SAE 85W-140

Product Number(s): 219941, 223021, 223022, 223025, 223026

Company Identification
Chevron Products Company
a division of Chevron U.S.A. Inc.
5001 Executive Parkway
San Ramon, CA 94583
United States of America
www.chevronlubricants.com

#### **Transportation Emergency Response**

CHEMTREC: (800) 424-9300 or (703) 527-3887

**Health Emergency** 

Chevron Emergency & Information Center: Located in the USA. International collect calls accepted. (800)

231-0623 or (510) 231-0623

**Product Information** 

email: lubemsds@chevron.com

Product Information: 1 (800) 582-3835, LUBETEK@chevron.com

# SECTION 2 HAZARDS IDENTIFICATION

#### **CLASSIFICATION:**

· Acute aquatic toxicant: Category 3.

· Chronic aquatic toxicant: Category 3.

#### **Environmental Hazards:**

· Harmful to aquatic life with long lasting effects.

#### **PRECAUTIONARY STATEMENTS:**

#### **Prevention:**

· Avoid release to the environment.

#### Disposal:

• Dispose of contents and container in accordance with applicable local, regional, national, and international regulations.

**HAZARDS NOT OTHERWISE CLASSIFIED:** Heating may release highly toxic and flammable hydrogen sulfide (H2S). Do not attempt rescue without supplied-air respiratory protection.

**Revision Number:** 5 1 of 9 **Delo Gear EP-5 SAE 80W-90, 85W-140** 

#### **SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS**

COMPONENTS	CAS NUMBER	AMOUNT
Highly refined mineral oil (C15 - C50)	Mixture	70 - 99 %weight
Olefin sulfide	Confidential	0 - 5 %weight
Phosphoric acid ester, amine salt	Mixture	0 - < 2.5 %weight
Amines, C12-14 tert-alkyl	68955-53-3	0 - < 1 %weight

#### SECTION 4 FIRST AID MEASURES

#### **Description of first aid measures**

**Eye:** No specific first aid measures are required. As a precaution, remove contact lenses, if worn, and flush eyes with water.

**Skin:** No specific first aid measures are required. As a precaution, remove clothing and shoes if contaminated. To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse.

**Ingestion:** No specific first aid measures are required. Do not induce vomiting. As a precaution, get medical advice.

**Inhalation:** No specific first aid measures are required. If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs. If exposure to hydrogen sulfide (H2S) gas is possible during an emergency, wear an approved, positive pressure air-supplying respirator. Move the exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

# Most important symptoms and effects, both acute and delayed IMMEDIATE HEALTH EFFECTS

Eye: Not expected to cause prolonged or significant eye irritation.

**Skin:** Contact with the skin is not expected to cause prolonged or significant irritation. Contact with the skin is not expected to cause an allergic skin response. Not expected to be harmful to internal organs if absorbed through the skin.

**Ingestion:** Not expected to be harmful if swallowed.

**Inhalation:** Not expected to be harmful if inhaled. Contains a petroleum-based mineral oil. May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recommended mineral oil mist exposure limit. Symptoms of respiratory irritation may include coughing and difficulty breathing. Hydrogen sulfide has a strong rotten-egg odor. However, with continued exposure and at high levels, H2S may deaden a person's sense of smell. If the rotten egg odor is no longer noticeable, it may not necessarily mean that exposure has stopped. At low levels, hydrogen sulfide causes irritation of the eyes, nose, and throat. Moderate levels can cause headache, dizziness, nausea, and vomiting, as well as coughing and difficulty breathing. Higher levels can cause shock, convulsions, coma, and death. After a serious exposure, symptoms usually begin immediately.

The U.S. National Institute for Occupational Safety and Health (NIOSH) considers air concentrations of hydrogen sulfide gas greater than 100 ppm to be Immediately Dangerous to Life and Health (IDLH).

#### **DELAYED OR OTHER HEALTH EFFECTS:** Not classified

## Indication of any immediate medical attention and special treatment needed

**Note to Physicians:** Administration of 100% oxygen and supportive care is the preferred treatment for poisoning by hydrogen sulfide gas. For additional information on H2S, see Chevron SDS No. 301.

# **SECTION 5 FIRE FIGHTING MEASURES**

**Revision Number:** 5 2 of 9 **Delo Gear EP-5 SAE 80W-90, 85W-140** 

**EXTINGUISHING MEDIA:** Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames

UNSUITABLE EXTINGUISHING MEDIA: No data available

#### **PROTECTION OF FIRE FIGHTERS:**

**Fire Fighting Instructions:** This material will burn although it is not easily ignited. See Section 7 for proper handling and storage. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus. **Combustion Products:** Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion. Combustion may form oxides of: Nitrogen, Phosphorus, Sulfur.

# **SECTION 6 ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment, and emergency procedures:** Observe all relevant local and international regulations. Eliminate all sources of ignition in vicinity of spilled material. Keep out unnecessary and unprotected personnel. Persons entering the contaminated area to correct the problem or to determine whether it is safe to resume normal activities must comply with all instructions and wear appropriate personal protective equipment as indicated in Section 8.

**Spill Management:** Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

**Reporting:** Report spills to local authorities and/or the U.S. Coast Guard's National Response Center at (800) 424-8802 as appropriate or required.

#### **SECTION 7 HANDLING AND STORAGE**

**General Handling Information:** Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

**Precautionary Measures:** Do not breathe gas. Wash thoroughly after handling. Keep out of the reach of children.

**Unusual Handling Hazards:** Toxic quantities of hydrogen sulfide (H2S) may be present in storage tanks and bulk transport vessels which contain or have contained this material. Persons opening or entering these compartments should first determine if H2S is present. See Exposure Controls/Personal Protection -Section 8. Do not attempt rescue of a person over exposed to H2S without wearing approved suppliedair or self-contained breathing equipment. If there is a potential for exceeding one-half the occupational exposure standard, monitoring of hydrogen sulfide levels is required. Since the sense of smell cannot be relied upon to detect the presence of H2S, the concentration should be measured by the use of fixed or portable devices.

**Static Hazard:** Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating and accumulating an electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures.

**Container Warnings:** Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode

**Revision Number:** 5 3 of 9 **Delo Gear EP-5 SAE 80W-90, 85W-140** 

and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.

# SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **GENERAL CONSIDERATIONS:**

Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the workplace when designing engineering controls and selecting personal protective equipment (PPE). If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, refer to PPE information below.

Factors that affect PPE include, but are not limited to: properties of the chemical, other chemicals which may contact the same PPE, physical requirements (fit & sizing, cut/puncture protection, dexterity, thermal protection, etc.), and potential allergic reactions to the PPE material. It is the responsibility of the user to read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances. Refer to appropriate CEN standards.

#### **ENGINEERING CONTROLS:**

Use in a well-ventilated area.

#### PERSONAL PROTECTIVE EQUIPMENT

Eye/Face Protection: Wear protective equipment to prevent eye contact. Selection of protective equipment may include safety glasses, chemical goggles, face shields, or a combination depending on the work operations conducted.

Skin Protection: Wear chemical personal protective equipment (PPE) to prevent skin contact. Selection of chemical protective clothing should be performed by an Occupational Hygienist or Safety Professional and be based upon applicable standards (ASTM F739 or EN 374). Using chemical PPE depends upon operations conducted and may include chemical gloves, boots, chemical apron, chemical suit, and complete facial protection. Refer to PPE manufacturers to obtain breakthrough time information to determine how long PPE can be used before it needs to be replaced. Unless specific glove manufacturer data indicates otherwise, the below table is based upon available industry data to assist in the glove selection process and is intended to be used as reference only.

Chemical Glove Material	Thickness (mm)	Typical Breakthrough Time (minutes)
Butyl	0.7	120
Nitrile	0.8	240
Viton Butyl	0.3	240

Respiratory Protection: A site-specific risk assessment should be conducted by an Occupational Hygienist or a Safety Professional to determine the type and use of respiratory protective equipment. When a site-specific risk assessment determines that respiratory protection is required, use an approved respirator such as:

#### Air purifying respirator -

If airborne concentration limits exceed the applicable occupational exposure limit, but are below the maximum use concentration.

Vapors only: organic vapor cartridge (filter type A3 per EN 529:2005).

Vapors and particulates (including generated mists); both an organic vapor cartridge & particulate filter (AP3 filter per EN 529:2005).

Refer to respirator manufacturers to obtain service life of cartridge / filter.

Positive pressure air-supplying respirator -

Revision Number: 5 Delo Gear EP-5 SAE 80W-90, 85W-140 4 of 9

Revision Date: November 12, 2024 **SDS**: 44036

If airborne concentration limits exceed the maximum use concentration offered from an air purifying respirator.

If hydrogen sulfide (H2S) airborne concentrations exceed its applicable occupational exposure limits due to this material being heated. For more information on H2S, see Chevron SDS 301.

Refer to EN 529:2005, USA OSHA 1910.134, and/or other applicable local/regional/national/international standards for regulatory requirements.

# Occupational Exposure Limits:

Component	Agency	Form	TWA	STEL	Ceiling	Notation
Highly refined mineral oil (C15 - C50)	ACGIH		5 mg/m3	10 mg/m3		
Highly refined mineral oil (C15 - C50)	OSHA Z-1		5 mg/m3			

Consult local authorities for appropriate values.

#### **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

Attention: the data below are typical values and do not constitute a specification.

Color: Brown

Physical State: Liquid **Odor:** Petroleum odor

Odor Threshold: No data available

**pH:** No data available

Vapor Pressure: No data available Relative Vapor Density: No data available Initial Boiling Point: No data available

**Solubility:** Soluble in hydrocarbons; insoluble in water

Freezing Point: No data available Melting Point: No data available Particle Characteristics: Not applicable

**Density:** 0.8856 kg/l - 0.905 kg/l @ 15°C (59°F) (Typical)

Kinematic Viscosity: 13.7 mm2/s - 29.0 mm2/s @ 100°C (212°F)

Coefficient of Therm. Expansion / °F: No data available

**Evaporation Rate:** No data available

**Decomposition temperature:** No data available

Partition coefficient n-octanol/water (logarithmic value): No data available

#### FLAMMABLE PROPERTIES:

Flammability (solid, gas): Not Applicable

Flashpoint: (Cleveland Open Cup) 180 °C (356 °F) (Minimum)

No data available Autoignition:

Flammability (Explosive) Limits (% by volume in air): Lower: No data available Upper: No data

available

# **SECTION 10 STABILITY AND REACTIVITY**

**Reactivity:** May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

Chemical Stability: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur. May react with strong

Revision Number: 5 5 of 9 Delo Gear EP-5 SAE 80W-90, 85W-140 Revision Date: November 12, 2024 **SDS**: 44036

acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

Incompatibility With Other Materials: Not applicable

Hazardous Decomposition Products: Alkyl Mercaptans (Elevated temperatures), Hydrogen Sulfide

(Elevated temperatures)

#### SECTION 11 TOXICOLOGICAL INFORMATION

#### Information on toxicological effects

Serious Eye Damage/Irritation: The material is not considered an eye irritant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Skin Corrosion/Irritation: The material is not considered a skin irritant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

**Skin Sensitization:** The material is not considered a skin sensitizer. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Acute Dermal Toxicity: The material is not considered a dermal toxicant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Acute Oral Toxicity: The material is not considered an oral toxicant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Acute Inhalation Toxicity: The material is not considered an inhalation toxicant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components. Acute Toxicity Estimate: Not Determined

Germ Cell Mutagenicity: The material is not considered a mutagen. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Carcinogenicity: The material is not considered a carcinogen. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Reproductive Toxicity: The material is not considered a reproductive toxicant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Specific Target Organ Toxicity - Single Exposure: The material is not considered a target organ toxicant (single exposure). The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Specific Target Organ Toxicity - Repeated Exposure: The material is not considered a target organ toxicant (repeated exposure). The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

**Aspiration Hazard:** The material is not considered an aspiration hazard.

# ADDITIONAL TOXICOLOGY INFORMATION:

This product contains petroleum base oils which may be refined by various processes including severe solvent extraction, severe hydrocracking, or severe hydrotreating. None of the oils requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as: carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B).

These oils have not been classified by the American Conference of Governmental Industrial Hygienists (ACGIH) as: confirmed human carcinogen (A1), suspected human carcinogen (A2), or confirmed animal

6 of 9 Delo Gear EP-5 SAE 80W-90. 85W-140 Revision Date: November 12, 2024

**SDS**: 44036

carcinogen with unknown relevance to humans (A3).

# **SECTION 12 ECOLOGICAL INFORMATION**

#### **ECOTOXICITY**

This material is expected to be harmful to aquatic organisms and may cause long-term adverse effects in the aquatic environment.

The product has not been tested. The statement has been derived from the properties of the individual components.

#### **MOBILITY**

No data available.

#### PERSISTENCE AND DEGRADABILITY

This material is not expected to be readily biodegradable. The product has not been tested. The statement has been derived from the properties of the individual components.

# POTENTIAL TO BIOACCUMULATE

Bioconcentration Factor: No data available.

Partition coefficient n-octanol/water (logarithmic value): No data available

#### **SECTION 13 DISPOSAL CONSIDERATIONS**

Use material for its intended purpose or recycle if possible. Oil collection services are available for used oil recycling or disposal. Place contaminated materials in containers and dispose of in a manner consistent with applicable regulations. Contact your sales representative or local environmental or health authorities for approved disposal or recycling methods.

# **SECTION 14 TRANSPORT INFORMATION**

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

DOT Shipping Description: NOT REGULATED AS HAZARDOUS MATERIAL UNDER 49 CFR

IMO/IMDG Shipping Description: NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT UNDER THE IMDG CODE

ICAO/IATA Shipping Description: NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT UNDER ICAO

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code: Not applicable

# **SECTION 15 REGULATORY INFORMATION**

EPCRA 311/312 CATEGORIES: Not applicable

**REGULATORY LISTS SEARCHED:** 

01-1=IARC Group 1 05=MA RTK 01-2A=IARC Group 2A 06=NJ RTK

**Revision Number:** 5 7 of 9 **Delo Gear EP Revision Date:** November 12, 2024 **SDS:** 44036

01-2B=IARC Group 2B 07=PA RTK 02=NTP Carcinogen 08-1=TSCA 5(e) 03=EPCRA 313 08-2=TSCA 12(b)

04=CA Proposition 65

No components of this material were found on the regulatory lists above.

#### CHEMICAL INVENTORIES:

All components comply with the following chemical inventory requirements: AllC (Australia), DSL (Canada), ENCS (Japan), IECSC (China), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (United States).

#### **NEW JERSEY RTK CLASSIFICATION:**

Under the New Jersey Right-to-Know Act L. 1983 Chapter 315 N.J.S.A. 34:5A-1 et. seq., the product is to be identified as follows: PETROLEUM OIL (Gear oil)

# **SECTION 16 OTHER INFORMATION**

NFPA RATINGS: Health: 2 Flammability: 1 Reactivity: 0

Health: 0 HMIS RATINGS: Flammability: 1 Reactivity: 0

(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection Equipment Index recommendation, \*- Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

#### **REVISION STATEMENT:**

SECTION 01 - Company SDS Address information was modified.

SECTION 01 - Product Synonym information was added.

SECTION 02 - Precautionary Statements information was modified.

SECTION 06 - Personal Precautions, Protective Equipment and Emergency Procedures information was

SECTION 08 - Respiratory Protection information was added.

SECTION 08 - Respiratory Protection information was modified.

Revision Date: November 12, 2024

# ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV - Threshold Limit Value	TWA - Time Weighted Average
STEL - Short-term Exposure Limit	PEL - Permissible Exposure Limit
GHS - Globally Harmonized System	CAS - Chemical Abstract Service Number
ACGIH - American Conference of Governmental	IMO/IMDG - International Maritime Dangerous Goods
Industrial Hygienists	Code
API - American Petroleum Institute	SDS - Safety Data Sheet
HMIS - Hazardous Materials Information System	NFPA - National Fire Protection Association (USA)
DOT - Department of Transportation (USA)	NTP - National Toxicology Program (USA)
IARC - International Agency for Research on	OSHA - Occupational Safety and Health Administration
Cancer	
NCEL - New Chemical Exposure Limit	EPA - Environmental Protection Agency
SCBA - Self-Contained Breathing Apparatus	PNOS - Particles Not Otherwise Specified

Revision Number: 5 Delo Gear EP-5 SAE 80W-90, 85W-140 8 of 9

Revision Date: November 12, 2024 **SDS**: 44036 Prepared according to the 29 CFR 1910.1200 (2024) by Chevron.

The information in this SDS is based on the knowledge, information, and belief of Chevron and its affiliates as of the publication date. It is not a quality specification, and no warranty, express or implied, is given. We assume no responsibility or liability for the results of using this material. The information presented here pertains only to the listed product. Since conditions of use are beyond our control, it is the user's responsibility to determine the conditions for safe use of this product and assess its suitability for their application. Users should seek additional guidance if necessary.

**Revision Number:** 5 9 of 9 **Delo Gear EP-5 SAE 80W-90, 85W-140** 

Revision Date: November 12, 2024 SDS: 44036

# Safety Data Sheet



# **SECTION 1 PRODUCT AND COMPANY IDENTIFICATION**

# Delo Heavy Duty Moly 3% EP 1, 5% EP 1, 3% EP 2, 5% EP 2

**Product Use:** Commercial Grease

Product Number(s): 222231, 222232, 223407, 223408

**Company Identification** 

Productos Chevron México S. de R.L. de C.V.

Oriente 171 Núm. 401

Col. San Juan de Aragón Ampliación Delegación Gustavo A. Madero C.P. 07470

Mexico

# **Transportation Emergency Response**

CHEMTREC: (800) 424-9300 or (703) 527-3887

Mexico - SETIQ: 01 800 00 214 00 v 55 59 15 88 (D.F.)

# **Health Emergency**

Chevron Emergency & Information Center: Located in the USA. International collect calls accepted. (800)

231-0623 or (510) 231-0623

#### **Product Information**

email: ordenesmexico@chevron.com SDS Requests: 01 (800) 711-8772

# **SECTION 2 HAZARDS IDENTIFICATION**

#### **CLASSIFICATION:**

- Acute aguatic toxicant: Category 3.
- Chronic aquatic toxicant: Category 3.

#### **Environmental Hazards:**

· Harmful to aquatic life with long lasting effects (H412).

#### **PRECAUTIONARY STATEMENTS:**

#### **Prevention:**

Avoid release to the environment (P273).

# Disposal:

 Dispose of contents/container in accordance with applicable local/regional/national/international regulations (P501).

# SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENTS	CAS NUMBER	AMOUNT
Highly refined mineral oil (C15 - C50)	Mixture	60 - 99 %weight

**Revision Number:** 9 1 of 7 Delo Heavy Duty Moly 3% EP 1, 5% EP

1, 3% EP 2, 5% EP 2 SDS: 23614

Amines, polyethylenepoly-, reaction products with	134758-95-5	1 - 5 %weight
succinic anhydride polyisobutenyl derivs., borated		
Phosphorodithioic acid, mixed O,O-bis(iso-Bu and	68457-79-4	1 - 4 %weight
pentyl) esters, zinc salts		
Succinic anhydride, alkylation products with C12-rich	Not Available	0.1 - < 1 %weight
branched olefins from propene oligomerisation,		
hydrolyzed, esterification products with propylene		
oxide		
Phosphoric acid ester, amine salt	Mixture	0.1 - < 1 %weight

# SECTION 4 FIRST AID MEASURES

**Eye:** No specific first aid measures are required. As a precaution, remove contact lenses, if worn, and flush eves with water.

Skin: No specific first aid measures are required. As a precaution, remove clothing and shoes if contaminated. To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse.

Ingestion: No specific first aid measures are required. Do not induce vomiting. As a precaution, get medical advice.

**Inhalation:** No specific first aid measures are required. If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs.

Note to Physicians: In an accident involving high-pressure equipment, this product may be injected under the skin. Such an accident may result in a small, sometimes bloodless, puncture wound. However, because of its driving force, material injected into a fingertip can be deposited into the palm of the hand. Within 24 hours, there is usually a great deal of swelling, discoloration, and intense throbbing pain. Immediate treatment at a surgical emergency center is recommended.

#### SECTION 5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

Unusual Fire Hazards: Leaks/ruptures in high pressure system using materials of this type can create a fire hazard when in the vicinity of ignition sources (eg. open flame, pilot lights, sparks, or electric arcs).

### PROTECTION OF FIRE FIGHTERS:

Fire Fighting Instructions: This material will burn although it is not easily ignited. See Section 7 for proper handling and storage. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

**Combustion Products:** Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion. Combustion may form oxides of: Phosphorus, Molybdenum, Boron, Nitrogen, Lithium, Sulfur, Zinc.

# **SECTION 6 ACCIDENTAL RELEASE MEASURES**

**Protective Measures:** Eliminate all sources of ignition in vicinity of spilled material.

Spill Management: Clean up spills immediately, observing precautions in Exposure Controls/Personal Protection section. Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible. observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner

**Revision Number:** 9 2 of Delo Heavy Duty Moly 3% EP 1, 5% EP

1, 3% EP 2, 5% EP 2 SDS: 23614

consistent with applicable regulations.

**Reporting:** Report spills to local authorities as appropriate or required.

#### **SECTION 7 HANDLING AND STORAGE**

**General Handling Information:** Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

**Precautionary Measures:** DO NOT USE IN HIGH PRESSURE SYSTEMS in the vicinity of flames, sparks and hot surfaces. Use only in well ventilated areas. Keep container closed. Keep out of the reach of children.

**Static Hazard:** Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating and accumulating an electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures.

**Container Warnings:** Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.

#### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **GENERAL CONSIDERATIONS:**

Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the workplace when designing engineering controls and selecting personal protective equipment (PPE). If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, refer to PPE information below.

Factors that affect PPE include, but are not limited to: properties of the chemical, other chemicals which may contact the same PPE, physical requirements (fit & sizing, cut/puncture protection, dexterity, thermal protection, etc.), and potential allergic reactions to the PPE material. It is the responsibility of the user to read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances. Refer to appropriate CEN standards.

#### **ENGINEERING CONTROLS:**

Use in a well-ventilated area.

# PERSONAL PROTECTIVE EQUIPMENT

**Eye/Face Protection:** Wear protective equipment to prevent eye contact. Selection of protective equipment may include safety glasses, chemical goggles, face shields, or a combination depending on the work operations conducted.

**Skin Protection:** Wear chemical personal protective equipment (PPE) to prevent skin contact. Selection of chemical protective clothing should be performed by an Occupational Hygienist or Safety Professional and be based upon applicable standards (ASTM F739 or EN 374). Using chemical PPE depends upon operations conducted and may include chemical gloves, boots, chemical apron, chemical suit, and complete facial protection. Refer to PPE manufacturers to obtain breakthrough time information to determine how long PPE can be used before it needs to be replaced. Unless specific glove manufacturer data indicates otherwise, the below table is based upon available industry data to assist in the glove selection process and is intended to be used as reference only.

<b>Chemical Glove Material</b>	Thickness	Typical Breakthrough Time

 Revision Number: 9
 3 of
 7
 Delo Heavy Duty Moly 3% EP 1, 5% EP

 Revision Date: May 25, 2023
 1, 3% EP 2, 5% EP 2

	(mm)	(minutes)
Butyl	0.7	120
Nitrile	0.8	240
Viton Butyl	0.3	240

**Respiratory Protection:** No respiratory protection is normally required. If user operations generate an oil mist, determine if airborne concentrations are below the occupational exposure limit for mineral oil mist. If not, wear an approved respirator that provides adequate protection from the measured concentrations of this material. For air-purifying respirators use a particulate cartridge. Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide adequate protection.

# **Occupational Exposure Limits:**

Component	Country/ Agency	Form	TWA	STEL	Ceiling	Notation
Highly refined mineral oil (C15 - C50)	ACGIH		5 mg/m3	10 mg/m3		
Highly refined mineral oil (C15 - C50)	Mexico		5 mg/m3	10 mg/m3		

Consult local authorities for appropriate values.

#### **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

Attention: the data below are typical values and do not constitute a specification.

**Appearance** 

Color: Black to grey
Physical State: Semi-solid

Odor: Petroleum odor

Odor Threshold: No data available

**pH:** Not Applicable

Melting Point: No data available Freezing Point: Not Applicable Boiling Point: No data available

Flashpoint: (Cleveland Open Cup) 204 °C (399 °F) (Minimum)

Flammability (solid, gas): Not Applicable

Flammability (Explosive) Limits (% by volume in air): Lower: Not Applicable Upper: Not Applicable

Vapor Pressure: No data available

Vapor Density (Air = 1): No data available

Density: No data available

**Solubility:** Soluble in hydrocarbon solvents; insoluble in water. **Partition coefficient: n-octanol/water:** No data available

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Viscosity: 22 mm2/s @ 100°C (212°F) (Minimum)

Evaporation Rate: No data available

#### **SECTION 10 STABILITY AND REACTIVITY**

**Reactivity:** May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

Chemical Stability: This material is considered stable under normal ambient and anticipated storage

Delo Heavy Duty Moly 3% EP 1, 5% EP 1, 3% EP 2, 5% EP 2 SDS: 23614

and handling conditions of temperature and pressure.

Hazardous Polymerization: Hazardous polymerization will not occur.

**Incompatibility With Other Materials:** Not applicable

Hazardous Decomposition Products: Alkyl Mercaptans (Elevated temperatures), Hydrogen Sulfide

(Elevated temperatures)

#### SECTION 11 TOXICOLOGICAL INFORMATION

# **IMMEDIATE HEALTH EFFECTS**

Eye: Not expected to cause prolonged or significant eye irritation.

**Eye Irritation:** The material is not considered an eye irritant. The product has not been tested. The statement is based on evaluation of data for similar materials.

**Skin:** High-Pressure Equipment Information: Accidental high-velocity injection under the skin of materials of this type may result in serious injury. Seek medical attention at once should an accident like this occur. The initial wound at the injection site may not appear to be serious at first; but, if left untreated, could result in disfigurement or amputation of the affected part.

Contact with the skin is not expected to cause prolonged or significant irritation. Contact with the skin is not expected to cause an allergic skin response. Not expected to be harmful to internal organs if absorbed through the skin.

**Acute Dermal Toxicity:** The material is not considered a dermal toxicant. The product has not been tested. The statement is based on evaluation of data for similar materials.

**Skin Irritation:** The material is not considered a skin irritant. The product has not been tested. The statement is based on evaluation of data for similar materials.

**Skin Sensitization:** The material is not considered a skin sensitizer. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

**Ingestion:** Not expected to be harmful if swallowed.

**Acute Oral Toxicity:** The material is not considered an oral toxicant. The product has not been tested. The statement is based on evaluation of data for similar materials.

**Inhalation:** Not expected to be harmful if inhaled. Contains a petroleum-based mineral oil. May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recommended mineral oil mist exposure limit. Symptoms of respiratory irritation may include coughing and difficulty breathing.

**Acute Inhalation Toxicity:** The material is not considered an inhalation toxicant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Acute Toxicity Estimate: Not Determined

# ADDITIONAL TOXICOLOGY INFORMATION:

This product contains petroleum base oils which may be refined by various processes including severe solvent extraction, severe hydrocracking, or severe hydrotreating. None of the oils requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as; carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B).

These oils have not been classified by the American Conference of Governmental Industrial Hygienists (ACGIH) as: confirmed human carcinogen (A1), suspected human carcinogen (A2), or confirmed animal carcinogen with unknown relevance to humans (A3).

# **SECTION 12 ECOLOGICAL INFORMATION**

# **ECOTOXICITY**

Delo Heavy Duty Moly 3% EP 1, 5% EP 1, 3% EP 2, 5% EP 2 SDS: 23614

This material is expected to be harmful to aquatic organisms and may cause long-term adverse effects in the aquatic environment.

The product has not been tested. The statement has been derived from the properties of the individual components.

#### **MOBILITY**

No data available.

#### PERSISTENCE AND DEGRADABILITY

This material is not expected to be readily biodegradable. The product has not been tested. The statement has been derived from the properties of the individual components.

#### POTENTIAL TO BIOACCUMULATE

Bioconcentration Factor: No data available.

Octanol/Water Partition Coefficient: No data available

# **SECTION 13 DISPOSAL CONSIDERATIONS**

Use material for its intended purpose or recycle if possible. Oil collection services are available for used oil recycling or disposal. Place contaminated materials in containers and dispose of in a manner consistent with applicable regulations. Contact your sales representative or local environmental or health authorities for approved disposal or recycling methods.

#### SECTION 14 TRANSPORT INFORMATION

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

**DOT Shipping Description:** NOT REGULATED AS HAZARDOUS MATERIAL UNDER 49 CFR

IMO/IMDG Shipping Description: NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT UNDER THE IMDG CODE

ICAO/IATA Shipping Description: NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT UNDER ICAO

#### **SECTION 15 REGULATORY INFORMATION**

#### **REGULATORY LISTS SEARCHED:**

01-1=IARC Group 1 01-2A=IARC Group 2A 01-2B=IARC Group 2B

02=Mexico. Hazardous Chemicals (NOM-028-STPS-2012, System for administration of workplace safety in the process and critical equipment for handling hazardous chemicals, Appendix A, Table A.I)

No components of this material were found on the regulatory lists above.

# **CHEMICAL INVENTORIES:**

All components comply with the following chemical inventory requirements: AIIC (Australia), DSL (Canada), IECSC (China), NZIoC (New Zealand), PICCS (Philippines), TSCA (United States).

One or more components does not comply with the following chemical inventory requirements: KECI (Korea).

Revision Number: 9 6 of 7 Delo Heavy Duty Moly 3% EP 1, 5% E

Revision Date: May 25, 2023

#### **SECTION 16 OTHER INFORMATION**

**REVISION STATEMENT:** SECTION 03 - Composition information was modified.

SECTION 04 - Delayed Health Effects - Target Organ(s) information was modified.

SECTION 04 - First Aid - Skin information was modified.

SECTION 05 - Special hazards arising from the substance or mixture information was modified.

SECTION 05 - Unusual Fire Fighting Hazards information was added.

SECTION 07 - Precautionary Measures information was modified.

SECTION 08 - Eye/Face Protection information was modified.

SECTION 08 - General Considerations information was modified.

SECTION 08 - Occupational Exposure Limit Table information was modified.

SECTION 08 - Personal Protective Equipment List information was deleted.

SECTION 08 - Personal Protective Equipment information was added.

SECTION 08 - Skin Protection information was modified.

SECTION 11 - Immediate Health Effects - Skin information was modified.

SECTION 15 - Chemical Inventories information was modified.

SECTION 15 - Regulatory Information information was deleted.

Revision Date: May 25, 2023

The information is considered correct, but not exhaustive and is to be used only as guidance, which is based on the current knowledge on the chemical substance or mixture and is applicable to the appropriate safety precautions for the product.

#### ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV - Threshold Limit Value	TWA - Time Weighted Average
STEL - Short-term Exposure Limit	PEL - Permissible Exposure Limit
	CAS - Chemical Abstract Service Number
ACGIH - American Conference of Governmental	IMO/IMDG - International Maritime Dangerous Goods
Industrial Hygienists	Code
API - American Petroleum Institute	MSDS - Material Safety Data Sheet
CVX - Chevron	NFPA - National Fire Protection Association (USA)
DOT - Department of Transportation (USA)	NTP - National Toxicology Program (USA)
IARC - International Agency for Research on	OSHA - Occupational Safety and Health Administration
Cancer	

Prepared according to the Mexican Official Standard (NOM-018-STPS-2015) by Chevron Technical Center, 6001 Bollinger Canyon Road, San Ramon, CA 94583.

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

7 Delo Heavy Duty Moly 3% EP 1, 5% EP

1, 3% EP 2, 5% EP 2 SDS: 23614

# Safety Data Sheet



# **SECTION 1 PRODUCT AND COMPANY IDENTIFICATION**

# Delo TorqForce SAE 30, 50, 10W

Product Use: Drive Train Fluid

**Product Number(s):** 254601, 254602, 254603, 293105, 293106, 293107

Delo TorqForce SAE 10W ISOCLEAN Certified; Delo TorqForce SAE 30 ISOCLEAN

Certified; Delo TorgForce SAE 50 ISOCLEAN Certified

**Company Identification** Chevron Products Company a division of Chevron U.S.A. Inc. 6001 Bollinger Canyon Rd. San Ramon, CA 94583 United States of America www.chevronlubricants.com

#### **Transportation Emergency Response**

CHEMTREC: (800) 424-9300 or (703) 527-3887

**Health Emergency** 

Chevron Emergency & Information Center: Located in the USA. International collect calls accepted. (800)

231-0623 or (510) 231-0623

**Product Information** 

email: lubemsds@chevron.com

Product Information: 1 (800) 582-3835, LUBETEK@chevron.com

# SECTION 2 HAZARDS IDENTIFICATION

# **CLASSIFICATION:**

Not classified as hazardous according to 29 CFR 1910.1200 (2012).

**HAZARDS NOT OTHERWISE CLASSIFIED:** Not Applicable

# **SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS**

COMPONENTS	CAS NUMBER	AMOUNT
Highly refined mineral oil (C15 - C50)	Mixture	70 - 99 %weight

# SECTION 4 FIRST AID MEASURES

# **Description of first aid measures**

Eye: No specific first aid measures are required. As a precaution, remove contact lenses, if worn, and flush eyes with water.

Skin: No specific first aid measures are required. As a precaution, remove clothing and shoes if contaminated. To remove the material from skin, use soap and water. Discard contaminated clothing

**Revision Number: 10** 1 of 8 Delo TorgForce SAE 30, 50, 10W SDS: 38351

Revision Date: May 06, 2024

and shoes or thoroughly clean before reuse.

**Ingestion:** No specific first aid measures are required. Do not induce vomiting. As a precaution, get medical advice.

Inhalation: No specific first aid measures are required. If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs. If exposure to hydrogen sulfide (H2S) gas is possible during an emergency, wear an approved, positive pressure air-supplying respirator. Move the exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

# Most important symptoms and effects, both acute and delayed **IMMEDIATE HEALTH EFFECTS**

**Eye:** Not expected to cause prolonged or significant eye irritation.

Skin: High-Pressure Equipment Information: Accidental high-velocity injection under the skin of materials of this type may result in serious injury. Seek medical attention at once should an accident like this occur. The initial wound at the injection site may not appear to be serious at first; but, if left untreated, could result in disfigurement or amputation of the affected part.

Contact with the skin is not expected to cause prolonged or significant irritation. Contact with the skin is not expected to cause an allergic skin response. Not expected to be harmful to internal organs if absorbed through the skin.

**Ingestion:** Not expected to be harmful if swallowed.

Inhalation: Not expected to be harmful if inhaled. Contains a petroleum-based mineral oil. May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recommended mineral oil mist exposure limit. Symptoms of respiratory irritation may include coughing and difficulty breathing. Hydrogen sulfide has a strong rotten-egg odor. However, with continued exposure and at high levels, H2S may deaden a person's sense of smell. If the rotten egg odor is no longer noticeable, it may not necessarily mean that exposure has stopped. At low levels, hydrogen sulfide causes irritation of the eyes, nose, and throat. Moderate levels can cause headache, dizziness, nausea, and vomiting, as well as coughing and difficulty breathing. Higher levels can cause shock, convulsions, coma, and death. After a serious exposure, symptoms usually begin immediately.

The U.S. National Institute for Occupational Safety and Health (NIOSH) considers air concentrations of hydrogen sulfide gas greater than 100 ppm to be Immediately Dangerous to Life and Health (IDLH).

#### **DELAYED OR OTHER HEALTH EFFECTS:** Not classified

# Indication of any immediate medical attention and special treatment needed

Note to Physicians: Administration of 100% oxygen and supportive care is the preferred treatment for poisoning by hydrogen sulfide gas. For additional information on H2S, see Chevron SDS No. 301. In an accident involving high-pressure equipment, this product may be injected under the skin. Such an accident may result in a small, sometimes bloodless, puncture wound. However, because of its driving force, material injected into a fingertip can be deposited into the palm of the hand. Within 24 hours, there is usually a great deal of swelling, discoloration, and intense throbbing pain. Immediate treatment at a surgical emergency center is recommended.

#### SECTION 5 FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

Unusual Fire Hazards: Leaks/ruptures in high pressure system using materials of this type can create a fire hazard when in the vicinity of ignition sources (eg. open flame, pilot lights, sparks, or electric arcs).

# **PROTECTION OF FIRE FIGHTERS:**

Fire Fighting Instructions: This material will burn although it is not easily ignited. See Section 7 for

**Revision Number: 10** 2 of 8 Delo TorgForce SAE 30, 50, 10W Revision Date: May 06, 2024

SDS: 38351

proper handling and storage. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus. Combustion Products: Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion. Combustion may form oxides of: Calcium, Phosphorus, Sulfur, Zinc.

#### SECTION 6 ACCIDENTAL RELEASE MEASURES

Protective Measures: Eliminate all sources of ignition in vicinity of spilled material.

Spill Management: Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

Reporting: Report spills to local authorities and/or the U.S. Coast Guard's National Response Center at (800) 424-8802 as appropriate or required.

# **SECTION 7 HANDLING AND STORAGE**

General Handling Information: Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

Precautionary Measures: DO NOT USE IN HIGH PRESSURE SYSTEMS in the vicinity of flames. sparks and hot surfaces. Use only in well ventilated areas. Keep container closed. Do not breathe gas. Wash thoroughly after handling. Keep out of the reach of children.

**Unusual Handling Hazards:** Toxic quantities of hydrogen sulfide (H2S) may be present in storage tanks and bulk transport vessels which contain or have contained this material. Persons opening or entering these compartments should first determine if H2S is present. See Exposure Controls/Personal Protection -Section 8. Do not attempt rescue of a person over exposed to H2S without wearing approved suppliedair or self-contained breathing equipment. If there is a potential for exceeding one-half the occupational exposure standard, monitoring of hydrogen sulfide levels is required. Since the sense of smell cannot be relied upon to detect the presence of H2S, the concentration should be measured by the use of fixed or portable devices.

Static Hazard: Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating and accumulating an electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures.

Container Warnings: Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.

# SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **GENERAL CONSIDERATIONS:**

Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the workplace when designing engineering controls and selecting personal protective equipment (PPE). If engineering controls or work practices are not adequate to prevent

Delo TorgForce SAE 30, 50, 10W Revision Number: 10 3 of 8 Revision Date: May 06, 2024

SDS: 38351

exposure to harmful levels of this material, refer to PPE information below.

Factors that affect PPE include, but are not limited to: properties of the chemical, other chemicals which may contact the same PPE, physical requirements (fit & sizing, cut/puncture protection, dexterity, thermal protection, etc.), and potential allergic reactions to the PPE material. It is the responsibility of the user to read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances. Refer to appropriate CEN standards.

#### **ENGINEERING CONTROLS:**

Use in a well-ventilated area.

#### PERSONAL PROTECTIVE EQUIPMENT

**Eye/Face Protection:** Wear protective equipment to prevent eye contact. Selection of protective equipment may include safety glasses, chemical goggles, face shields, or a combination depending on the work operations conducted.

**Skin Protection:** Wear chemical personal protective equipment (PPE) to prevent skin contact. Selection of chemical protective clothing should be performed by an Occupational Hygienist or Safety Professional and be based upon applicable standards (ASTM F739 or EN 374). Using chemical PPE depends upon operations conducted and may include chemical gloves, boots, chemical apron, chemical suit, and complete facial protection. **Refer to PPE manufacturers to obtain breakthrough time information to determine how long PPE can be used before it needs to be replaced.** Unless specific glove manufacturer data indicates otherwise, the below table is based upon available industry data to assist in the glove selection process and is intended to be used as reference only.

Chemical Glove Material	Thickness (mm)	Typical Breakthrough Time (minutes)
Butyl	0.7	120
Nitrile	0.8	240
Viton Butyl	0.3	240

**Respiratory Protection:** No respiratory protection is normally required.

If material is heated and emits hydrogen sulfide, determine if airborne concentrations are below the occupational exposure limit for hydrogen sulfide. If not, wear an approved positive pressure air-supplying respirator. For more information on hydrogen sulfide, see Chevron SDS No. 301. If user operations generate an oil mist, determine if airborne concentrations are below the occupational exposure limit for mineral oil mist. If not, wear an approved respirator that provides adequate protection from the measured concentrations of this material. For air-purifying respirators use a particulate cartridge.

Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide adequate protection.

# **Occupational Exposure Limits:**

Component	Agency	Form	TWA	STEL	Ceiling	Notation
Highly refined mineral oil (C15 - C50)	ACGIH		5 mg/m3	10 mg/m3		
Highly refined mineral oil (C15 - C50)	OSHA Z-1		5 mg/m3			

Consult local authorities for appropriate values.

# SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Attention: the data below are typical values and do not constitute a specification.

Color: Brown to yellow

Revision Number: 10 4 of 8 Delo TorqForce SAE 30, 50, 10W

**Revision Date:** May 06, 2024 **SDS:** 38351

Physical State: Liquid Odor: Petroleum odor

Odor Threshold: No data available

**pH:** Not Applicable

Vapor Pressure: No data available Relative Vapor Density: No data available Initial Boiling Point: No data available

**Solubility:** Soluble in hydrocarbons; insoluble in water

Freezing Point: Not Applicable
Melting Point: No data available
Particle Characteristics: Not applicable

**Density:** 0.8763 kg/l - 0.8953 kg/l @ 15°C (59°F)

Kinematic Viscosity: 6.6 mm2/s - 19.1 mm2/s @ 100°C (212°F)

Coefficient of Therm. Expansion / °F: No data available

Evaporation Rate: No data available

Decomposition temperature: No data available

Partition coefficient n-octanol/water (logarithmic value): No data available

FLAMMABLE PROPERTIES:

Flammability (solid, gas): Not Applicable

Flashpoint: (Cleveland Open Cup) 205 °C (401 °F) (Minimum)

Autoignition: No data available

Flammability (Explosive) Limits (% by volume in air): Lower: Not Applicable Upper: Not

Applicable

# **SECTION 10 STABILITY AND REACTIVITY**

**Reactivity:** May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

**Chemical Stability:** This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Incompatibility With Other Materials: Not applicable

Hazardous Decomposition Products: Alkyl Mercaptans (Elevated temperatures), Hydrogen Sulfide

(Elevated temperatures)

Hazardous Polymerization: Hazardous polymerization will not occur.

#### SECTION 11 TOXICOLOGICAL INFORMATION

# Information on toxicological effects

**Serious Eye Damage/Irritation:** The material is not considered an eye irritant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

**Skin Corrosion/Irritation:** The material is not considered a skin irritant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

**Skin Sensitization:** The material is not considered a skin sensitizer. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

**Acute Dermal Toxicity:** The material is not considered a dermal toxicant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

**Acute Oral Toxicity:** The material is not considered an oral toxicant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Revision Number: 10 5 of 8 Delo TorqForce SAE 30, 50, 10W

Revision Number: 10 5 of 8 Delo Torq-or Revision Date: May 06, 2024 SDS: 38351

**Acute Inhalation Toxicity:** The material is not considered an inhalation toxicant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components. **Acute Toxicity Estimate:** Not Determined

**Germ Cell Mutagenicity:** The material is not considered a mutagen. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

**Carcinogenicity:** The material is not considered a carcinogen. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

**Reproductive Toxicity:** The material is not considered a reproductive toxicant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

**Specific Target Organ Toxicity - Single Exposure:** The material is not considered a target organ toxicant (single exposure). The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

**Specific Target Organ Toxicity - Repeated Exposure:** The material is not considered a target organ toxicant (repeated exposure). The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

**Aspiration Hazard:** The material is not considered an aspiration hazard.

#### ADDITIONAL TOXICOLOGY INFORMATION:

This product contains petroleum base oils which may be refined by various processes including severe solvent extraction, severe hydrocracking, or severe hydrotreating. None of the oils requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as; carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B).

These oils have not been classified by the American Conference of Governmental Industrial Hygienists (ACGIH) as: confirmed human carcinogen (A1), suspected human carcinogen (A2), or confirmed animal carcinogen with unknown relevance to humans (A3).

#### SECTION 12 ECOLOGICAL INFORMATION

#### **ECOTOXICITY**

This material is not expected to be harmful to aquatic organisms.

The product has not been tested. The statement has been derived from the properties of the individual components.

#### **MOBILITY**

No data available.

# PERSISTENCE AND DEGRADABILITY

This material is not expected to be readily biodegradable. The product has not been tested. The statement has been derived from the properties of the individual components.

#### POTENTIAL TO BIOACCUMULATE

Bioconcentration Factor: No data available.

Partition coefficient n-octanol/water (logarithmic value): No data available

# **SECTION 13 DISPOSAL CONSIDERATIONS**

Revision Number: 10 6 of 8 Delo TorqForce SAE 30, 50, 10W

SDS: 38351

Use material for its intended purpose or recycle if possible. Oil collection services are available for used oil recycling or disposal. Place contaminated materials in containers and dispose of in a manner consistent with applicable regulations. Contact your sales representative or local environmental or health authorities for approved disposal or recycling methods.

# **SECTION 14 TRANSPORT INFORMATION**

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

DOT Shipping Description: NOT REGULATED AS HAZARDOUS MATERIAL UNDER 49 CFR

IMO/IMDG Shipping Description: NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT UNDER THE IMDG CODE

ICAO/IATA Shipping Description: NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT UNDER ICAO

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code: Not applicable

#### SECTION 15 REGULATORY INFORMATION

EPCRA 311/312 CATEGORIES: Not applicable

#### **REGULATORY LISTS SEARCHED:**

 01-1=IARC Group 1
 05=MA RTK

 01-2A=IARC Group 2A
 06=NJ RTK

 01-2B=IARC Group 2B
 07=PA RTK

 02=NTP Carcinogen
 08-1=TSCA 5(e)

 03=EPCRA 313
 08-2=TSCA 12(b)

04=CA Proposition 65

No components of this material were found on the regulatory lists above.

#### **CHEMICAL INVENTORIES:**

All components comply with the following chemical inventory requirements: AllC (Australia), DSL (Canada), EINECS (European Union), ENCS (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (United States).

#### **NEW JERSEY RTK CLASSIFICATION:**

Under the New Jersey Right-to-Know Act L. 1983 Chapter 315 N.J.S.A. 34:5A-1 et. seq., the product is to be identified as follows: PETROLEUM OIL (Automatic transmission fluid)

# **SECTION 16 OTHER INFORMATION**

NFPA RATINGS: Health: 2 Flammability: 1 Reactivity: 0

 Revision Number: 10
 7 of 8
 Delo TorqForce SAE 30, 50, 10W

 Revision Date: May 06, 2024
 SDS: 38351

**HMIS RATINGS:** Health: 0 Flammability: 1 Reactivity: 0 (0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection Equipment Index recommendation, \*- Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

#### **REVISION STATEMENT:**

SECTION 05 - Fire Fighters Protection Measures information was modified.

SECTION 08 - Skin Protection information was modified.

SECTION 09 - Physical/Chemical Properties information was modified.

Revision Date: May 06, 2024

### ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV - Threshold Limit Value	TWA - Time Weighted Average
STEL - Short-term Exposure Limit	PEL - Permissible Exposure Limit
GHS - Globally Harmonized System	CAS - Chemical Abstract Service Number
ACGIH - American Conference of Governmental	IMO/IMDG - International Maritime Dangerous Goods
Industrial Hygienists	Code
API - American Petroleum Institute	SDS - Safety Data Sheet
HMIS - Hazardous Materials Information System	NFPA - National Fire Protection Association (USA)
DOT - Department of Transportation (USA)	NTP - National Toxicology Program (USA)
IARC - International Agency for Research on	OSHA - Occupational Safety and Health Administration
Cancer	·
NCEL - New Chemical Exposure Limit	EPA - Environmental Protection Agency
SCBA - Self-Contained Breathing Apparatus	PNOS - Particles Not Otherwise Specified

Prepared according to the 29 CFR 1910.1200 (2012) by Chevron.

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

**Revision Number: 10** 8 of 8 Delo TorgForce SAE 30, 50, 10W

Revision Date: May 06, 2024 SDS: 38351



# **SAFETY DATA SHEET**

Issuing Date January 5, 2015 Revision Date New Revision Number 0

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product identifier** 

Product Name Clorox® Professional™ Pine-Sol® Lemon Fresh Cleaner

Other means of identification

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use General purpose dilutable cleaner

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Address The Clorox Company 1221 Broadway Oakland, CA 94612

Phone: 1-510-271-7000

**Emergency telephone number** 

**Emergency Phone Numbers** For Medical Emergencies call: 1-800-446-1014

For Transportation Emergencies, call Chemtrec: 1-800-424-9300

# 2. HAZARDS IDENTIFICATION

#### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Serious eye damage/eye irritation

Category 2B

#### GHS Label elements, including precautionary statements

#### **Emergency Overview**

Signal word Warning

Hazard statements
Causes eye irritation

No pictogram required.

AppearanceClear, yellowPhysical StateSlightly viscous liquidOdo

Odor Lemon, grapefruit, floral

# **Precautionary Statements - Prevention**

Wash hands and any exposed skin thoroughly after handling

# <u>Precautionary Statements - Response</u>

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

### **Precautionary Statements - Storage**

None

#### **Precautionary Statements - Disposal**

None

### Hazards not otherwise classified (HNOC)

Not applicable

#### **Unknown Toxicity**

3.86% of the mixture consists of ingredient(s) of unknown toxicity

#### Other information

No information available.

# **Interactions with Other Chemicals**

No information available.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	Trade Secret
Alcohols, C10-14, ethoxylated	66455-15-0	1 - 5	*

<sup>\*</sup> The exact percentage (concentration) of composition has been withheld as a trade secret

# 4. FIRST AID MEASURES

First aid measures

**General Advice** Show this safety data sheet to the doctor in attendance.

**Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open

while rinsing. Get medical attention immediately if irritation persists.

**Skin Contact** Rinse skin with plenty of water. If irritation persists, call a doctor.

**Inhalation** Move to fresh air. If breathing is affected, call a doctor.

Ingestion Drink a glassful of water. Call a poison control center or doctor immediately. DO NOT

induce vomiting unless told to do so by a poison control center or doctor.

Most important symptoms and effects, both acute and delayed

**Most Important Symptoms/Effects** Stinging and irritation of eyes.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

#### **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### **Unsuitable Extinguishing Media**

CAUTION: Use of water spray when fighting fire may be inefficient.

# **Specific Hazards Arising from the Chemical**

No information available

#### **Explosion Data**

Sensitivity to Mechanical Impact None

Sensitivity to Static Discharge None

# **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

# 6. ACCIDENTAL RELEASE MEASURES

# Personal precautions, protective equipment and emergency procedures

Personal Precautions Avoid contact with eyes.

Other Information Refer to protective measures listed in Sections 7 and 8.

**Environmental precautions** 

**Environmental Precautions** See Section 12 for additional ecological Information

Methods and material for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Absorb and containerize. Wash residual down to sanitary sewer. Contact the sanitary

treatment facility in advance to assure ability to process washed-down material.

#### 7. HANDLING AND STORAGE

# Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

eyes, skin, and clothing. Do not eat, drink, or smoke when using this product.

### Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible Products None known.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## **Control parameters**

# **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Alcohols, C10-14, ethoxylated 66455-15-0	None	None	None

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

# **Appropriate engineering controls**

Engineering Measures Showers

Eyewash stations Ventilation systems

Individual protection measures, such as personal protective equipment

Revision Date New

**Eye/Face Protection** If splashes are likely to occur, wear safety glasses with side-shields. None required for

consumer use.

**Skin and Body Protection**No special protective equipment required.

**Respiratory Protection** If irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local

None known

regulations.

Hygiene Measures Remove and wash contaminated clothing before re-use. Avoid contact with skin, eyes or

clothing. Do not eat, drink or smoke when using this product.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical and Chemical Properties** 

Physical State Slightly viscous liquid

AppearanceClearOdorLemon, grapefruit, floralColorYellowOdor ThresholdNo information available

Property<br/>pHValues<br/>10 - 11Remarks/ Method<br/>None known

Melting/freezing point
Boiling Point/Range
Flash Point
Evaporation rate
Flammability (solid, gas)
No data available
No data available
No data available
No data available

Flammability Limits in Air

Upper flammability limit
Lower flammability limit
Vapor pressure
Vapor density

No data available
No data available
No data available
No data available

Specific Gravity ~1.0

Water Solubility
Solubility in other solvents
Partition coefficient: n-octanol/water
Autoignition temperature
Decomposition temperature
Kinematic viscosity
No data available

**Explosive Properties**Not explosive **Oxidizing Properties**No data available

**Other Information** 

Softening Point

VOC Content (%)

Particle Size

Particle Size Distribution

No data available
No data available
No data available

Page 5/8

# 10. STABILITY AND REACTIVITY

#### Reactivity

No data available.

#### **Chemical stability**

Stable under recommended storage conditions.

#### **Possibility of Hazardous Reactions**

None under normal processing.

#### Conditions to avoid

None known.

#### Incompatible materials

None known.

#### **Hazardous Decomposition Products**

None known based on information supplied.

# 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

**Product Information** 

**Inhalation** Exposure to vapor or mist may irritate respiratory tract.

**Eye Contact** May cause eye irritation.

**Skin Contact** Prolonged contact may cause irritation.

Ingestion Ingestion may cause irritation to mucous membranes and gastrointestinal irritation, nausea,

vomiting, and diarrhea.

#### Information on toxicological effects

**Symptoms** May cause redness and tearing of the eyes.

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Sensitization** No information available.

Mutagenic Effects No information available.

**Carcinogenicity** Contains no ingredient listed as a carcinogen.

Reproductive Toxicity No information available

**STOT - single exposure** No information available.

**STOT - repeated exposure**No information available.

**Chronic Toxicity** Carcinogenic potential is unknown.

Target Organ Effects Eyes.

Aspiration Hazard No information available.

#### **Numerical measures of toxicity Product Information**

The following values are calculated based on chapter 3.1 of the GHS document Not applicable.

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

No information available.

#### Persistence and Degradability

No information available.

#### **Bioaccumulation**

No information available.

#### **Other Adverse Effects**

No information available.

# 13. DISPOSAL CONSIDERATIONS

#### **Disposal methods**

Dispose of in accordance with all applicable federal, state, and local regulations.

#### **Contaminated Packaging**

Do not reuse empty containers. Dispose of in accordance with all applicable federal, state, and local regulations.

# 14. TRANSPORT INFORMATION

**DOT** Not regulated

TDG Not regulated

ICAO Not regulated

<u>IATA</u> Not regulated

<u>IMDG/IMO</u> Not regulated

# 15. REGULATORY INFORMATION

# **Chemical Inventories**

TSCA All components of this product are either on the TSCA 8(b) Inventory or otherwise exempt from

listing.

**DSL/NDSL** All components are on the DSL or NDSL.

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory **DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

# **U.S. Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### SARA 311/312 Hazard Categories

Acute Health Hazard Yes
Chronic Health Hazard No
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard No

#### **Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

# **U.S. State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

#### U.S. State Right-to-Know Regulations

# **International Regulations**

Canada WHMIS Hazard Class D2B Toxic Materials



# **16. OTHER INFORMATION**

NFPA Health Hazard 1 Flammability 0 Instability 0 Physical and Chemical

Hazards -

HMIS Health Hazard 1 Flammability 0 Physical Hazard 0 Personal Protection A

Prepared By Product Stewardship

23 British American Blvd. Latham, NY 12110 1-800-572-6501

Preparation/Revision Date January 5, 2015

Revision Date New
Revision Note New

**Reference** 1064000/138376.001/1056182-J

#### **General Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of Safety Data Sheet** 

# CRO

# SAFETY DATA SHEET

#### 1. Identification

Product identifier Air Brake Anti-Freeze & Conditioner

Other means of identification

**Product Code** No. 05555 (Item# 1003823)

Recommended use Air brake anti-freeze

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufactured or sold by:

Company name CRC Industries, Inc.

Address 885 Louis Dr.

Warminster, PA 18974 US

**Telephone** 

 General Information
 215-674-4300

 Technical Assistance
 800-521-3168

 Customer Service
 800-272-4620

 24-Hour Emergency
 800-424-9300 (US)

(CHEMTREC) 703-527-3887 (International)
Website www.crcindustries.com

# 2. Hazard(s) identification

Physical hazardsFlammable liquidsCategory 2Health hazardsAcute toxicity, oralCategory 3

Acute toxicity, dermal Category 3
Acute toxicity, inhalation Category 3
Reproductive toxicity (fertility) Category 2

Specific target organ toxicity, single exposure Category 1 (central nervous system, eyes)

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements







**Hazard statement**Highly flammable liquid and vapor. Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled.
Suspected of damaging fertility. Causes damage to organs (central nervous system, eyes).

Precautionary statement

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe vapors. Use only with adequate ventilation; maintain ventilation during use and until all vapors are gone. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.

Material name: Air Brake Anti-Freeze & Conditioner

SDS US

If swallowed: Immediately call a poison center/doctor. Rinse mouth. If on skin (or hair): Take off Response

immediately all contaminated clothing. Rinse skin with water/shower. Call a poison center/doctor if you feel unwell. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor. If exposed: Call a poison center/doctor. In case of fire: Do not use water jet as an extinguisher, as this will spread the fire.

Storage Keep cool. Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national regulations.

Hazard(s) not otherwise classified (HNOC)

Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

Supplemental information None.

# 3. Composition/information on ingredients

#### **Mixtures**

Ingestion

Chemical name	Common name and synonyms	CAS number	%
methanol		67-56-1	90 - 100

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 4. First-aid measures

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or Inhalation

> artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other

proper respiratory medical device. Call a POISON CENTER or doctor/physician.

Skin contact Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical

advice/attention if you feel unwell. Get medical attention if irritation develops and persists. Wash

contaminated clothing before reuse.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting without

advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other

proper respiratory medical device.

Most important symptoms/effects, acute and delayed

Narcosis. Headache. Dizziness. Nausea, vomiting. Behavioral changes. Decrease in motor

functions. Direct contact with eyes may cause temporary irritation.

Indication of immediate medical attention and special treatment needed

Methanol is metabolized to formic acid and formaldehyde. These metabolites can cause metabolic acidosis, visual disturbances and blindness. Since metabolism is required for these toxic symptoms, their onset may be delayed from 6 to 30 hours following ingestion. Ethanol competes for the same metabolic pathway and has been used to prevent methanol metabolism. Ethanol administration is indicated in symptomatic patients or at blood methanol concentrations above 20 µg/dl. Methanol is effectively removed by hemodialysis. Fomepizole (4-methylpyrazole) is an effective antagonist of alcohol dehydrogenase, and may be used as an antidote in the treatment of methanol poisoning.

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

**General information** 

Take off immediately all contaminated clothing. IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

# 5. Fire-fighting measures

Suitable extinguishing media

Water fog. Alcohol resistant foam. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Material name: Air Brake Anti-Freeze & Conditioner

2/9 No. 05555 (Item# 1003823) Version #: 02 Revision date: 04-09-2018 Issue date: 03-24-2015

# Specific hazards arising from the chemical

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed.

# Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire-fighting equipment/instructions

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Use standard firefighting procedures and consider the hazards of other involved materials.

Specific methods
General fire hazards

Use standard firefighting procedures and consider the hazards of other involved materials.

Highly flammable liquid and vapor.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

# Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

#### **Environmental precautions**

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.

#### 7. Handling and storage

#### Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe vapor. Do not taste or swallow. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Observe good industrial hygiene practices. For product usage instructions, see the product label.

# Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Store in a cool, dry place out of direct sunlight. Keep container tightly closed. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

#### Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.100
---

Components	Type `	, Value	
methanol (CAS 67-56-1)	PEL	260 mg/m3	
		200 ppm	
US. ACGIH Threshold Limit Value	es		
Components	Туре	Value	
methanol (CAS 67-56-1)	STEL	250 ppm	
	TWA	200 ppm	
US. NIOSH: Pocket Guide to Che	mical Hazards		
Components	Туре	Value	
methanol (CAS 67-56-1)	STEL	325 mg/m3	
		250 ppm	
	TWA	260 mg/m3	

### **Biological limit values**

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
methanol (CAS 67-56-1)	15 mg/l	Methanol	Urine	*

<sup>\* -</sup> For sampling details, please see the source document.

#### **Exposure guidelines**

US - California OELs: Skin designation

methanol (CAS 67-56-1) Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

methanol (CAS 67-56-1) Skin designation applies.

US - Tennessee OELs: Skin designation

methanol (CAS 67-56-1) Can be absorbed through the skin.

**US ACGIH Threshold Limit Values: Skin designation** 

methanol (CAS 67-56-1) Can be absorbed through the skin.

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

methanol (CAS 67-56-1) Can be absorbed through the skin.

Appropriate engineering

controls

Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

200 ppm

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

Skin protection

**Hand protection** Wear protective gloves such as: Nitrile. Rubber.

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a

NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to

determine actual employee exposure levels.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

#### 9. Physical and chemical properties

# Appearance

Physical state Liquid.

**Form** Liquid. Colorless. Color

Odor Pungent. Alcoholic.

**Odor threshold** Not available. Not available. pН

Melting point/freezing point -144 °F (-97.8 °C) estimated Initial boiling point and boiling 148.5 °F (64.7 °C) estimated

range

Flash point 54 °F (12.2 °C) Setaflash

**Evaporation rate** Fast.

Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits Flammability limit - lower 2.6 % estimated

(%)

Flammability limit - upper

(%)

36 % estimated

Vapor pressure 133.2 hPa estimated

Vapor density 1.1 (air = 1)0.79 Relative density

Solubility(ies)

Solubility (water) Completely soluble. Partition coefficient Not available.

(n-octanol/water)

**Auto-ignition temperature** 725 °F (385 °C) estimated

**Decomposition temperature** Not available. Percent volatile 99.9 % estimated

# 10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability** Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Avoid heat, sparks, open flames and other ignition sources. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

Carbon oxides. Formaldehyde.

# 11. Toxicological information

#### Information on likely routes of exposure

Inhalation Toxic if inhaled. May cause damage to organs by inhalation.

Toxic in contact with skin. Skin contact

Eye contact Direct contact with eyes may cause temporary irritation.

Toxic if swallowed. Even small amounts (30-250 ml methanol) may be fatal. Symptoms are Ingestion

stomach ache, nausea, vomiting, dullness, visual disorder and blindness.

Symptoms related to the physical, chemical and

toxicological characteristics

Narcosis. Headache. Dizziness. Nausea, vomiting. Behavioral changes. Decrease in motor

functions.

# Information on toxicological effects

Toxic if inhaled. Toxic in contact with skin. Toxic if swallowed. **Acute toxicity** 

Prolonged skin contact may cause temporary irritation. Skin corrosion/irritation Serious eye damage/eye

irritation

Direct contact with eyes may cause temporary irritation.

Material name: Air Brake Anti-Freeze & Conditioner

Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

**Carcinogenicity** Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

**US. National Toxicology Program (NTP) Report on Carcinogens** 

Not listed.

Reproductive toxicity

Suspected of damaging fertility.

Specific target organ toxicity -

single exposure

Causes damage to organs (central nervous system, eyes). Even small amounts (30-250 ml methanol) may be fatal. Symptoms are stomach ache, nausea, vomiting, dullness, visual disorder

and blindness.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful.

# 12. Ecological information

**Ecotoxicity**The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Test Results** Components **Species** methanol (CAS 67-56-1) **Aquatic** Fish LC50 Rainbow trout, donaldson trout 18000 - 20000 mg/l, 96 hours (Oncorhynchus mykiss) Acute Crustacea EC50 Water flea (Daphnia magna) > 10000 mg/l, 48 hours Fish LC50 Rainbow trout.donaldson trout 18000 - 20000 mg/l, 96 hours (Oncorhynchus mykiss)

Persistence and degradability No data is

No data is available on the degradability of any ingredients in the mixture.

**Bioaccumulative potential** 

Partition coefficient n-octanol / water (log Kow)

methanol -0.77

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

#### 13. Disposal considerations

Hazardous waste code D001: Waste Flammable material with a flash point <140 F

F003: Waste Non-halogenated Solvent - Spent Non-halogenated Solvent

US RCRA Hazardous Waste U List: Reference

methanol (CAS 67-56-1) U154

Since emptied containers may retain product residue, follow label warnings even after container is

mptied.

**Disposal instructions** This material and its container must be disposed of as hazardous waste. Collect and reclaim or

dispose in sealed containers at licensed waste disposal site. Dispose in accordance with all

applicable regulations.

#### 14. Transport information

DOT

UN number UN1230

SDS US

UN proper shipping name Methanol, solution (methanol RQ = 5007 LBS)

Transport hazard class(es)

3 Class Subsidiary risk 3 Label(s) Packing group Ш

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

**Special provisions** IB2, T7, TP2

Packaging exceptions 150 Packaging non bulk 202 242 Packaging bulk

**IATA** 

**UN** number UN1230 **UN** proper shipping name Methanol

Transport hazard class(es) 3 Class Subsidiary risk 6.1 Packing group Ш **ERG Code** 3L

Other information

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only

Allowed with restrictions.

**IMDG** 

**UN** number UN1230 **METHANOL UN** proper shipping name

Transport hazard class(es)

3 Class Subsidiary risk 6.1 Packing group Ш **Environmental hazards** 

Marine pollutant No. F-E, S-D

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

# 15. Regulatory information

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication US federal regulations

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

# SARA 304 Emergency release notification

Not regulated.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

#### US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

methanol (CAS 67-56-1)

#### **CERCLA Hazardous Substance List (40 CFR 302.4)**

methanol (CAS 67-56-1) Listed.

#### **CERCLA Hazardous Substances: Reportable quantity**

methanol (CAS 67-56-1) 5000 LBS

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

#### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

methanol (CAS 67-56-1)

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

(SDWA)

Not regulated.

Food and Drug

Administration (FDA)

Not regulated.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Classified hazard** 

Flammable (gases, aerosols, liquids, or solids)

categories Acute toxicity (any route of exposure)

Reproductive toxicity

Specific target organ toxicity (single or repeated exposure)

Hazard not otherwise classified (HNOC)

#### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
methanol	67-56-1	90 - 100	

#### **US** state regulations

#### US. New Jersey Worker and Community Right-to-Know Act

methanol (CAS 67-56-1)

#### **US. Massachusetts RTK - Substance List**

methanol (CAS 67-56-1)

#### US. Pennsylvania Worker and Community Right-to-Know Law

methanol (CAS 67-56-1)

#### US. Rhode Island RTK

methanol (CAS 67-56-1)

#### **California Proposition 65**



**WARNING:** Reproductive Harm - www.P65Warnings.ca.gov

#### California Proposition 65 - CRT: Listed date/Developmental toxin

methanol (CAS 67-56-1) Listed: March 16, 2012

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

methanol (CAS 67-56-1)

#### Volatile organic compounds (VOC) regulations

#### **EPA**

State

VOC content (40 CFR 1

100 %

51.100(s))

Consumer products

Not regulated

(40 CFR 59, Subpt. C)

Consumer products Not regulated VOC content (CA) 100 %

VOC content (OTC) 100 %

#### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes

Country(s) or region Inventory name On inventory (yes/no)\* Europe European List of Notified Chemical Substances (ELINCS) Inventory of Existing and New Chemical Substances (ENCS) Japan Yes Korea Existing Chemicals List (ECL) Yes New Zealand New Zealand Inventory Yes Philippine Inventory of Chemicals and Chemical Substances **Philippines** Yes

(PICCS)

Taiwan Toxic Chemical Substances (TCS)

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

Yes

#### 16. Other information, including date of preparation or last revision

Issue date03-24-2015Revision date04-09-2018Prepared byAllison Yoon

Version # 02

Further information CRC # 620B/1002661

**Disclaimer** The information contained in this document applies to this specific material as supplied. It may not

be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC's knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this (M)SDS consult your supervisor, a health & safety

professional, or CRC Industries, Inc..

**Revision information**This document has undergone significant changes and should be reviewed in its entirety.

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# CRC

#### SAFETY DATA SHEET

#### 1. Identification

Product identifier Brakleen® Brake Parts Cleaner

Other means of identification

**Product Code** No. 05151 (Item# 1003740)

Recommended use Brake parts cleaner

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufactured or sold by:

Company name CRC Industries, Inc.

Address 885 Louis Dr.

Warminster, PA 18974 US

**Telephone** 

 General Information
 215-674-4300

 Technical Assistance
 800-521-3168

 Customer Service
 800-272-4620

 24-Hour Emergency
 800-424-9300 (US)

(CHEMTREC) 703-527-3887 (International)
Website www.crcindustries.com

#### 2. Hazard(s) identification

Physical hazards Flammable aerosols Category 1

Gases under pressure Compressed gas
Serious eye damage/eye irritation Category 2A
Reproductive toxicity (the unborn child) Category 2

Specific target organ toxicity, single exposure Category 3 narcotic effects

Specific target organ toxicity, repeated

exposure

Category 2 (central nervous system, kidney,

peripheral nervous system)

Category 3

Environmental hazards Hazardous to the aquatic environment, acute

hazard

OSHA defined hazards Not classified.

Label elements

**Health hazards** 



Signal word Danger

Hazard statement Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes

serious eye irritation. May cause drowsiness or dizziness. Suspected of damaging the unborn child. May cause damage to organs (central nervous system, kidney, peripheral nervous system)

through prolonged or repeated exposure. Harmful to aquatic life.

Material name: Brakleen® Brake Parts Cleaner

No. 05151 (Item# 1003740) Version #: 02 Revision date: 04-05-2018 Issue date: 05-26-2015 1 / 10

#### **Precautionary statement**

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not breathe mist or vapor. Do not apply while equipment is energized.

Extinguish all flames, pilot lights, and heaters. Vapors will accumulate readily and may ignite. Use only with adequate ventilation; maintain ventilation during use and until all vapors are gone. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the

area. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye

protection/face protection. Avoid release to the environment.

**Response** If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison

center/doctor if you feel unwell. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get

medical advice/attention. If exposed or concerned: Get medical advice/attention.

Storage Store in a well-ventilated place. Store locked up. Protect from sunlight. Do not expose to

temperatures exceeding 50°C/122°F. Exposure to high temperature may cause can to burst.

**Disposal** Dispose of contents/container in accordance with local/regional/national regulations.

Hazard(s) not otherwise classified (HNOC)

Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

Supplemental information None.

#### 3. Composition/information on ingredients

Wixtures			
Chemical name	Common name and synonyms	CAS number	%
acetone		67-64-1	80 - 90
carbon dioxide		124-38-9	10 - 20
toluene		108-88-3	1 - 3

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 4. First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

**Skin contact** Wash off with soap and water. Get medical attention if irritation develops and persists.

**Eye contact** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Ingestion** In the unlikely event of swallowing contact a physician or poison control center. Rinse mouth.

Most important May o

symptoms/effects, acute and

delayed

May cause drowsiness and dizziness. Narcosis. Headache. Nausea, vomiting. Behavioral changes. Decrease in motor functions. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Edema. Prolonged exposure may cause chronic effects.

enec

Indication of immediate medical attention and special

treatment needed
General information

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data

sheet to the doctor in attendance.

#### 5. Fire-fighting measures

Suitable extinguishing media Water fog. Alcohol resistant foam. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide,

sand or earth may be used for small fires only.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Contents under pressure. Pressurized container may rupture when exposed to heat or flame. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient

charge is accumulated, ignition of flammable mixtures can occur. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may

be formed.

Special protective equipment and precautions for firefighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

In case of fire: Stop leak if safe to do so. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up.

Extremely flammable aerosol. Contents under pressure. Pressurized container may rupture when exposed to heat or flame.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Remove all possible sources of ignition in the surrounding area. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water. Prevent product from entering drains. Stop the flow of material, if this is without risk. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.

#### 7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Use caution around energized equipment. The metal container will conduct electricity if it contacts a live source. This may result in injury to the user from electrical shock and/or flash fire. Do not breathe mist or vapor. Avoid contact with eyes. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices. For product usage instructions, see the product label. Level 3 Aerosol.

Conditions for safe storage, including any incompatibilities

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122°F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Avoid spark promoters. These alone may be insufficient to remove static electricity. Store in a well-ventilated place. Stored containers should be periodically checked for general condition and leakage. Store away from incompatible materials (see Section 10 of the SDS).

#### 8. Exposure controls/personal protection

#### Occupational exposure limits

Components	Type	Value	
acetone (CAS 67-64-1)	PEL	2400 mg/m3	
		1000 ppm	
carbon dioxide (CAS	PEL	9000 mg/m3	
124-38-9)		5000 ppm	
US. OSHA Table Z-2 (29 CFR 191	10.1000)	••	
Components	Туре	Value	
toluene (CAS 108-88-3)	Ceiling	300 ppm	
	TWA	200 ppm	

Material name: Brakleen® Brake Parts Cleaner

SDS US

No. 05151 (Item# 1003740) Version #: 02 Revision date: 04-05-2018 Issue date: 05-26-2015

<b>US. ACGIH Threshold Limit Valu</b>	es		
Components	Туре	Value	
acetone (CAS 67-64-1)	STEL	500 ppm	
	TWA	250 ppm	
carbon dioxide (CAS 124-38-9)	STEL	30000 ppm	
	TWA	5000 ppm	
toluene (CAS 108-88-3)	TWA	20 ppm	
US. NIOSH: Pocket Guide to Che	emical Hazards		
Components	Туре	Value	
acetone (CAS 67-64-1)	TWA	590 mg/m3	
		250 ppm	
carbon dioxide (CAS 124-38-9)	STEL	54000 mg/m3	
		30000 ppm	
	TWA	9000 mg/m3	
		5000 ppm	
toluene (CAS 108-88-3)	STEL	560 mg/m3	
·		150 ppm	
	TWA	375 mg/m3	
		100 ppm	

#### **Biological limit values**

**ACGIH Biological Exposure Indices** 

Components	Value	Determinant	Specimen	Sampling Time	
acetone (CAS 67-64-1)	25 mg/l	Acetone	Urine	*	
toluene (CAS 108-88-3)	0.3 mg/g	o-Cresol, with hydrolysis	Creatinine in urine	*	
	0.03 mg/l	Toluene	Urine	*	
	0.02 mg/l	Toluene	Blood	*	

<sup>\* -</sup> For sampling details, please see the source document.

#### **Exposure guidelines**

US - California OELs: Skin designation

toluene (CAS 108-88-3)

Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

toluene (CAS 108-88-3)

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation,

Skin designation applies.

or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide

eyewash station.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

Skin protection

**Hand protection** Wear protective gloves such as: Nitrile. Neoprene. Polyvinyl alcohol (PVA).

**Other** Wear suitable protective clothing.

Respiratory protection If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a

NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to

determine actual employee exposure levels.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work

clothing and protective equipment to remove contaminants.

#### 9. Physical and chemical properties

#### **Appearance**

Physical state Liquid.

**Form** Aerosol. Colorless. Color Odor Sweet.

**Odor threshold** Not available. Not available.

-138.8 °F (-94.9 °C) estimated Melting point/freezing point 132.9 °F (56.1 °C) estimated Initial boiling point and boiling

range

Flash point < 0 °F (< -17.8 °C)

**Evaporation rate** Fast.

Not available. Flammability (solid, gas) Upper/lower flammability or explosive limits Flammability limit - lower 1.2 % estimated

(%)

Flammability limit - upper

12.8 % estimated

(%)

Vapor pressure 6962 hPa estimated

Vapor density 2 (air = 1)0.88 estimated Relative density

Solubility(ies)

Solubility (water) Slightly soluble. Partition coefficient Not available.

(n-octanol/water)

**Auto-ignition temperature** 869 °F (465 °C) estimated

**Decomposition temperature** Not available. Percent volatile 88.2 % estimated

#### 10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Heat, flames and sparks. Contact with incompatible materials.

Incompatible materials Acids. Aluminum. Hazardous decomposition Carbon oxides.

products

#### 11. Toxicological information

#### Information on likely routes of exposure

May cause damage to organs through prolonged or repeated exposure by inhalation. May cause Inhalation

drowsiness and dizziness. Headache. Nausea, vomiting.

Skin contact No adverse effects due to skin contact are expected.

Eye contact Causes serious eye irritation.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics May cause drowsiness and dizziness. Narcosis. Headache, Nausea, vomiting, Behavioral changes. Decrease in motor functions. Severe eye irritation. Symptoms may include stinging,

tearing, redness, swelling, and blurred vision. Edema.

Information on toxicological effects

**Acute toxicity** 

Material name: Brakleen® Brake Parts Cleaner

SDS US

No. 05151 (Item# 1003740) Version #: 02 Revision date: 04-05-2018 Issue date: 05-26-2015

Components **Species Test Results** acetone (CAS 67-64-1) **Acute** Dermal LD50 Rabbit 20000 mg/kg Oral Rat LD50 5800 mg/kg toluene (CAS 108-88-3) Acute Inhalation

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Rat

Serious eye damage/eye

irritation

LC50

Causes serious eye irritation.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

toluene (CAS 108-88-3) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Suspected of damaging the unborn child. Reproductive toxicity Specific target organ toxicity -May cause drowsiness and dizziness. single exposure

Specific target organ toxicity repeated exposure

May cause damage to organs (central nervous system, kidney, peripheral nervous system)

12.5 mg/l, 4 hours

through prolonged or repeated exposure.

Not an aspiration hazard. **Aspiration hazard** 

**Chronic effects** May cause damage to organs through prolonged or repeated exposure. Prolonged inhalation may

be harmful.

### 12. Ecological information

cotoxicity	Harmful to	o aquatic life.	
Components		Species	Test Results
acetone (CAS 67-64-1)			
Aquatic			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	4740 - 6330 mg/l, 96 hours
Acute			
Crustacea	EC50	Daphnia magna	10294 - 17704 mg/l, 48 hours
toluene (CAS 108-88-3)	)		
Acute			
Other	EC50	Pseudokirchnerella subcapitata	433 mg/l, 96 hours
			12.5 mg/l, 72 hours
Aquatic			
Acute			
Crustacea	EC50	Water flea (Daphnia magna)	6 mg/l, 48 hours
Fish	LC50	Coho salmon,silver salmon (Oncorhynchus kisutch)	5.5 mg/l, 96 hours

**Persistence and degradability** No data is available on the degradability of any ingredients in the mixture.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

acetone -0.24 toluene 2.73

**Bioconcentration factor (BCF)** 

toluene 90

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

#### 13. Disposal considerations

Hazardous waste code D001: Waste Flammable material with a flash point <140 F

F003: Waste Non-halogenated Solvent - Spent Non-halogenated Solvent

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

**Disposal instructions** This material and its container must be disposed of as hazardous waste. Collect and reclaim or

dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose in accordance

with all applicable regulations.

#### 14. Transport information

DOT

UN number UN1950

**UN proper shipping name** Aerosols, flammable, Limited Quantity

Transport hazard class(es)

Class 2.1 Subsidiary risk -Label(s) 2.1

Packing group Not applicable.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions N82
Packaging exceptions 306
Packaging non bulk 304
Packaging bulk None

IATA

UN number UN1950

**UN proper shipping name** Aerosols, flammable, Limited Quantity

Transport hazard class(es)

Class 2.1 Subsidiary risk -

Packing group Not applicable.

ERG Code 10L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo Allowed with restrictions.

aircraft

Cargo aircraft only Allowed with restrictions.

**IMDG** 

UN number UN1950

UN proper shipping name AEROSOLS, Limited Quantity

Transport hazard class(es)

Class 2
Subsidiary risk -

Packing group Not applicable.

**Environmental hazards** 

Marine pollutant No. EmS F-D, S-U

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Material name: Brakleen® Brake Parts Cleaner

SDS US

#### 15. Regulatory information

**US** federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

toluene (CAS 108-88-3)

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

acetone (CAS 67-64-1) Listed. toluene (CAS 108-88-3) Listed.

**CERCLA Hazardous Substances: Reportable quantity** 

acetone (CAS 67-64-1) 5000 LBS toluene (CAS 108-88-3) 1000 LBS

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

toluene (CAS 108-88-3)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

acetone (CAS 67-64-1) 6532 toluene (CAS 108-88-3) 6594

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

acetone (CAS 67-64-1) 35 %WV toluene (CAS 108-88-3) 35 %WV

**DEA Exempt Chemical Mixtures Code Number** 

acetone (CAS 67-64-1) 6532 toluene (CAS 108-88-3) 594

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

acetone (CAS 67-64-1) Low priority

Food and Drug

Not regulated.

Administration (FDA)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Classified hazard Flammable (gases, aerosols, liquids, or solids)

categories Gas under pressure

Serious eye damage or eye irritation

Reproductive toxicity

No. 05151 (Item# 1003740) Version #: 02 Revision date: 04-05-2018 Issue date: 05-26-2015

Specific target organ toxicity (single or repeated exposure)

Hazard not otherwise classified (HNOC)

SARA 302 Extremely hazardous substance

Not listed.

SARA 313 (TRI reporting)

 Chemical name
 CAS number
 % by wt.

 toluene
 108-88-3
 1 - 3

**US state regulations** 

US. New Jersey Worker and Community Right-to-Know Act

acetone (CAS 67-64-1) carbon dioxide (CAS 124-38-9)

toluene (CAS 108-88-3)

Material name: Brakleen® Brake Parts Cleaner

•

#### **US. Massachusetts RTK - Substance List**

acetone (CAS 67-64-1) carbon dioxide (CAS 124-38-9) toluene (CAS 108-88-3)

#### US. Pennsylvania Worker and Community Right-to-Know Law

acetone (CAS 67-64-1) carbon dioxide (CAS 124-38-9) toluene (CAS 108-88-3)

#### **US. Rhode Island RTK**

acetone (CAS 67-64-1) carbon dioxide (CAS 124-38-9) toluene (CAS 108-88-3)

#### **California Proposition 65**



**WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov

#### California Proposition 65 - CRT: Listed date/Carcinogenic substance

acetaldehyde (CAS 75-07-0)

benzene (CAS 71-43-2)

cumene (CAS 98-82-8)

ethylbenzene (CAS 100-41-4)

naphthalene (CAS 91-20-3)

Listed: April 1, 1988

Listed: February 27, 1987

Listed: April 6, 2010

Listed: June 11, 2004

Listed: April 19, 2002

#### California Proposition 65 - CRT: Listed date/Developmental toxin

benzene (CAS 71-43-2) Listed: December 26, 1997 toluene (CAS 108-88-3) Listed: January 1, 1991

#### California Proposition 65 - CRT: Listed date/Male reproductive toxin

benzene (CAS 71-43-2) Listed: December 26, 1997

## US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

acetone (CAS 67-64-1) toluene (CAS 108-88-3)

#### Volatile organic compounds (VOC) regulations

#### **EPA**

VOC content (40 CFR

2.7 %

51.100(s))

Consumer products (40 CFR 59, Subpt. C)

Not regulated

#### State

Consumer products

This product is regulated as a Brake Cleaner. This product is compliant for use in all 50 states. This product also complies with South Coast Air Quality Management District Rule 1171.

VOC content (CA) 2.7 % VOC content (OTC) 2.7 %

#### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Toxic Chemical Substances (TCS)	Yes

Material name: Brakleen® Brake Parts Cleaner

SDS US

Country(s) or region Inventory name On inventory (yes/no)\*

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### 16. Other information, including date of preparation or last revision

Issue date05-26-2015Revision date04-05-2018Prepared byAllison Yoon

Version # 02

Further information CRC # 668A/1002701

**Disclaimer** The information contained in this document applies to this specific material as supplied. It may not

be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC's knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this (M)SDS consult your supervisor, a health & safety

professional, or CRC Industries, Inc..

**Revision information**This document has undergone significant changes and should be reviewed in its entirety.

Material name: Brakleen® Brake Parts Cleaner

10 / 10

No. 05151 (Item# 1003740) Version #: 02 Revision date: 04-05-2018 Issue date: 05-26-2015

## Crystal Clean

#### SAFETY DATA SHEET

#### 1. Identification

Product identifier Crystal Clean 106 Mineral Spirits

Other means of identification None.

Recommended use Degreasing/Cleaning

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Company name Heritage-Crystal Clean, LLC
Address 2175 Point Boulevard Suite 375

Elgin. IL 60123-9211

**Telephone** Technical Questions 877-938-7948

Website www.crystal-clean.com
E-mail cc\_ehs@crystal-clean.com

Emergency phone number Chemtrec 800-424-9300

#### 2. Hazard(s) identification

Physical hazardsFlammable liquidsCategory 3Health hazardsSerious eye damage/eye irritationCategory 2A

Carainaganiaity

Carcinogenicity Category 2

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

Specific target organ toxicity, single exposure Category 3 narcotic effects

Environmental hazards Hazardous to the aquatic environment, acute Category 2

hazard

OSHA defined hazards Not classified.

Label elements



Signal word Warning

Hazard statement Flammable liquid and vapor. Causes serious eye irritation. May cause respiratory irritation. May

cause drowsiness or dizziness. Suspected of causing cancer. Toxic to aquatic life.

**Precautionary statement** 

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing mist or vapor. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear

protective gloves/protective clothing/eye protection/face protection.

**Response** If inhaled: Remove person to fresh air and keep comfortable for breathing. If exposed or

concerned: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. In

case of fire: Use appropriate media to extinguish.

Storage Store in a well-ventilated place. Keep container tightly closed. Store locked up. Keep cool.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Crystal Clean 106 Mineral Spirits

927621 Version #: 01 Revision date: - Issue date: 17-June-2015

1 / 10

#### 3. Composition/information on ingredients

#### **Substances**

Chemical name	Common name and synonyms	CAS number	%
Stoddard solvent		8052-41-3	100
Constituents Chemical name		CAS number	%
Nonane		111-84-2	1 - 5.4
1,2,4-Trimethylbenzene		95-63-6	0.8 - 4
Trimethylbenzene		25551-13-7	0.1 - 0.8
Toluene		108-88-3	0.08 - 0.8
Naphthalene		91-20-3	0.08 - 0.4
Ethylbenzene		100-41-4	0.08 - 0.4

**Composition comments** 

Occupational Exposure Limits for constituents are listed in Section 8.

#### 4. First-aid measures

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin contact

Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation

occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Eve contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion

delayed

Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.

Most important symptoms/effects, acute and May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

**General information** 

Take off all contaminated clothing immediately. If exposed or concerned, get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

#### 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

equipment/instructions

Specific methods

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards Flammable liquid and vapor.

#### 6. Accidental release measures

Personal precautions. protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of vapors and spray mists. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Crystal Clean 106 Mineral Spirits SDS US 2 / 10

## Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material. The product is immiscible with water and will spread on the water surface.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent product from entering drains. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

#### **Environmental precautions**

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

#### 7. Handling and storage

#### Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid inhalation of vapors and spray mists. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

## Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

#### 8. Exposure controls/personal protection

#### Occupational exposure limits

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	
Stoddard solvent (CAS 8052-41-3)	PEL	2900 mg/m3	
·		500 ppm	
Constituents	Туре	Value	
Ethylbenzene (CAS 100-41-4)	PEL	435 mg/m3	
		100 ppm	
Naphthalene (CAS 91-20-3)	PEL	50 mg/m3	
		10 ppm	
US. OSHA Table Z-2 (29 CFR 1910	.1000)		
Constituents	Туре	Value	
Toluene (CAS 108-88-3)	Ceiling	300 ppm	
	TWA	200 ppm	
US. ACGIH Threshold Limit Values	5		
Components	Туре	Value	
Stoddard solvent (CAS 8052-41-3)	TWA	100 ppm	
Constituents	Туре	Value	
Ethylbenzene (CAS 100-41-4)	TWA	20 ppm	
Naphthalene (CAS 91-20-3)	TWA	10 ppm	

Crystal Clean 106 Mineral Spirits
927621 Version #: 01 Revision date: - Issue date: 17-June-2015

#### **US. ACGIH Threshold Limit Values**

Constituents	Туре	Value	
Trimethylbenzene (CAS 25551-13-7)	TWA	25 ppm	
Toluene (CAS 108-88-3)	TWA	20 ppm	
1,2,4-Trimethylbenzene (CAS 95-63-6)	TWA	25 ppm	
Nonane (CAS 111-84-2)	TWA	200 ppm	

#### **US. NIOSH: Pocket Guide to Chemical Hazards**

Components	Туре	Value	
Stoddard solvent (CAS 8052-41-3)	Ceiling	1800 mg/m3	
,	TWA	350 mg/m3	
Constituents	Туре	Value	
Ethylbenzene (CAS 100-41-4)	STEL	545 mg/m3	
		125 ppm	
	TWA	435 mg/m3	
		100 ppm	
Naphthalene (CAS 91-20-3)	STEL	75 mg/m3	
		15 ppm	
	TWA	50 mg/m3	
		10 ppm	
Trimethylbenzene (CAS 25551-13-7)	TWA	125 mg/m3	
		25 ppm	
Toluene (CAS 108-88-3)	STEL	560 mg/m3	
		150 ppm	
	TWA	375 mg/m3	
		100 ppm	
1,2,4-Trimethylbenzene (CAS 95-63-6)	TWA	125 mg/m3	
		25 ppm	
Nonane (CAS 111-84-2)	TWA	1050 mg/m3 200 ppm	

#### **Biological limit values**

#### **ACGIH Biological Exposure Indices**

Constituents	Value	Determinant	Specimen	Sampling Time
Ethylbenzene (CAS 100-41-4)	0.15 g/g	Sum of mandelic acid and phenylglyoxylic acid	Creatinine in urine	*
Toluene (CAS 108-88-3)	0.3 mg/g	o-Cresol, with hydrolysis	Creatinine in urine	*
	0.03 mg/l	Toluene	Urine	*
	0.02 mg/l	Toluene	Blood	*

<sup>\* -</sup> For sampling details, please see the source document.

#### **Exposure guidelines**

US - California OELs: Skin designation

Toluene (CAS 108-88-3)

US - Minnesota Haz Subs: Skin designation applies

Toluene (CAS 108-88-3)

**US ACGIH Threshold Limit Values: Skin designation** 

Naphthalene (CAS 91-20-3)

Can be absorbed through the skin.

Skin designation applies.

Can be absorbed through the skin.

Crystal Clean 106 Mineral Spirits SDS US 927621 Version #: 01 Revision date: - Issue date: 17-June-2015

#### Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

after handling the material and before eating, drinking, and/or smoking. Routinely wash work

#### Individual protection measures, such as personal protective equipment

Chemical respirator with organic vapor cartridge and full facepiece. Eye/face protection

Skin protection

considerations

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove Hand protection

supplier.

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. Other

Respiratory protection Chemical respirator with organic vapor cartridge and full facepiece. Wear appropriate thermal protective clothing, when necessary. Thermal hazards

**General hygiene** When using do not smoke. Always observe good personal hygiene measures, such as washing

clothing and protective equipment to remove contaminants.

#### 9. Physical and chemical properties

Clear liquid with blue tint. **Appearance** 

Liquid. Physical state **Form** Liquid. Color Clear, blue. Odor Hydrocarbon-like. **Odor threshold** Not available. Not available. Ha -65°C to -25°C Melting point/freezing point

Initial boiling point and boiling

range

300 - 419 °F (148.89 - 215 °C)

Flash point > 106.0 °F (> 41.1 °C) Tag Closed Cup

Not available. **Evaporation rate** Not applicable. Flammability (solid, gas) Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

(%)

Not available.

**Explosive limit - lower (%)** Not available. Explosive limit - upper (%) Not available.

< 1 mm Hg at 20°C Vapor pressure

> 1 [Air = 1] Vapor density 0.78 - 0.79Relative density

Solubility(ies)

Insoluble Solubility (water) Partition coefficient Not available.

(n-octanol/water)

Not available. **Auto-ignition temperature Decomposition temperature** Not available. Not available. **Viscosity** 

Other information

**Explosive properties** Not explosive. Oxidizing properties Not oxidizing.

100 % VOC (Weight %)

SDS US 927621 Version #: 01 Revision date: -Issue date: 17-June-2015

#### 10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the

flash point. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

**Hazardous decomposition** 

products

**Product** 

No hazardous decomposition products are known.

#### 11. Toxicological information

#### Information on likely routes of exposure

Inhalation May cause drowsiness and dizziness. Headache. Nausea, vomiting. May cause respiratory tract

irritation.

Skin contact Under normal conditions of intended use, this product does not pose a skin hazard.

Eye contact Causes serious eye irritation.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics Headache. May cause drowsiness and dizziness. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause

**Test Results** 

respiratory irritation.

#### Information on toxicological effects

**Acute toxicity** Narcotic effects. May cause respiratory irritation. **Species** 

	•	
Crystal Clean 106 Mineral S	Spirits (CAS Mixture)	
Acute		
Dermal		
LD50	Rabbit	> 3000 mg/kg
Inhalation		
LC50	Rat	> 5 mg/kg, 4 Hours
Oral		
LD50	Rat	> 5000 mg/kg
Constituents	Species	Test Results
Ethylbenzene (CAS 100-41	-4)	
Acute		
Dermal		
LD50	Rabbit	> 5000 mg/kg
Oral		
LD50	Rat	5.46 g/kg
Naphthalene (CAS 91-20-3)	)	
Acute		
Dermal		
LD50	Rabbit	> 2 g/kg
Oral		
LD50	Rat	490 mg/kg
Toluene (CAS 108-88-3)		
Acute		
Inhalation		
LC50	Rat	8000 mg/l, 4 Hours
Oral		
LD50	Rat	2.6 g/kg

Crystal Clean 106 Mineral Spirits

927621 Version #: 01 Revision date: -Issue date: 17-June-2015 Constituents Species Test Results

1,2,4-Trimethylbenzene (CAS 95-63-6)

**Acute**Dermal

LD50 Rabbit > 3160 mg/kg

Inhalation

LC50 Rat 18000 mg/m3, 4 hours

**Skin corrosion/irritation** Not expected to be a primary skin irritant.

Serious eye damage/eye

Causes serious eye irritation.

irritation

Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

**Carcinogenicity** Suspected of causing cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

Ethylbenzene (CAS 100-41-4)

Naphthalene (CAS 91-20-3)

2B Possibly carcinogenic to humans.

2B Possibly carcinogenic to humans.

Stoddard solvent (CAS 8052-41-3)

Toluene (CAS 108-88-3)

3 Not classifiable as to carcinogenicity to humans.
3 Not classifiable as to carcinogenicity to humans.

NTP Report on Carcinogens

Naphthalene (CAS 91-20-3) Reasonably Anticipated to be a Human Carcinogen.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

**Reproductive toxicity**Not expected to be a reproductive hazard.

Specific target organ toxicity -

May cause respiratory irritation. May cause drowsiness and dizziness.

single exposure

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Based on available data, the classification criteria are not met.

**Chronic effects** Suspected to increase risk of cancer.

12. Ecological information

**Ecotoxicity** Toxic to aquatic life.

Constituents		Species	Test Results
Ethylbenzene (CAS 1	00-41-4)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	1 - 4 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	4 mg/l, 96 hours
Naphthalene (CAS 91	-20-3)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	1.09 - 3.4 mg/l, 48 hours
Fish	LC50	Pink salmon (Oncorhynchus gorbuscha)	0.95 - 1.62 mg/l, 96 hours
1,2,4-Trimethylbenzer	ne (CAS 95-63-6)		
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	7.19 - 8.28 mg/l, 96 hours

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Stoddard solvent (CAS 8052-41-3) 3.16 - 7.15

**Mobility in soil** The product is insoluble in water.

Crystal Clean 106 Mineral Spirits

927621 Version #: 01 Revision date: - Issue date: 17-June-2015

7 / 10

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

#### 13. Disposal considerations

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow **Disposal instructions** 

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Dispose in accordance with all applicable regulations. Local disposal regulations

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

#### 14. Transport information

#### DOT

**UN** number UN1268

**UN proper shipping name** Transport hazard class(es) Petroleum distillates, n.o.s.

3 **Class** Subsidiary risk 3 Label(s) Ш Packing group

**Environmental hazards** 

Marine pollutant Yes

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

144, B1, IB3, T4, TP1, TP29 Special provisions

150 Packaging exceptions Packaging non bulk 203 242 Packaging bulk

IATA

UN1268 **UN** number

**UN proper shipping name** Transport hazard class(es)

Petroleum distillates, n.o.s.

**Class** 3 Subsidiary risk 3 Label(s)

Ш Packing group **Environmental hazards** No.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

**IMDG** 

**UN number** UN1268

**UN proper shipping name** Transport hazard class(es) PETROLEUM DISTILLATES, N.O.S.

3 Class Subsidiary risk Packing group Ш **Environmental hazards** 

Marine pollutant Yes F-E, S-E

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and Not established.

the IBC Code

**General information** Solvent material is subject to DOT Exception 49 CFR 173.150(f)(2) for domestic shipment only and in non-bulk packaging less than 119 gallons, unless material becomes a hazardous waste.

8 / 10 927621 Version #: 01 Revision date: -Issue date: 17-June-2015

Crystal Clean 106 Mineral Spirits

#### 15. Regulatory information

**US** federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Nonane (CAS 111-84-2) 1.0 % One-Time Export Notification only.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Ethylbenzene (CAS 100-41-4) LISTED Naphthalene (CAS 91-20-3) LISTED Nonane (CAS 111-84-2) LISTED Toluene (CAS 108-88-3) LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Yes

Immediate Hazard - Yes **Hazard categories** 

Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
Ethylbenzene	100-41-4	0.08 - 0.4	
Naphthalene	91-20-3	0.08 - 0.4	
1,2,4-Trimethylbenzene	95-63-6	0.8 - 4	

#### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Ethylbenzene (CAS 100-41-4) Naphthalene (CAS 91-20-3) Toluene (CAS 108-88-3)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

**Safe Drinking Water Act** Not regulated.

(SDWA)

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and **Chemical Code Number** 

Toluene (CAS 108-88-3) 6594

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Toluene (CAS 108-88-3) 35 %WV

**DEA Exempt Chemical Mixtures Code Number** 

Toluene (CAS 108-88-3) 594

#### **US** state regulations

#### **US. Massachusetts RTK - Substance List**

1,2,4-Trimethylbenzene (CAS 95-63-6)

Ethylbenzene (CAS 100-41-4) Naphthalene (CAS 91-20-3)

Nonane (CAS 111-84-2)

Stoddard solvent (CAS 8052-41-3)

Toluene (CAS 108-88-3)

Trimethylbenzene (CAS 25551-13-7)

#### US. New Jersey Worker and Community Right-to-Know Act

1,2,4-Trimethylbenzene (CAS 95-63-6)

Ethylbenzene (CAS 100-41-4) Naphthalene (CAS 91-20-3)

Nonane (CAS 111-84-2)

Stoddard solvent (CAS 8052-41-3)

Crystal Clean 106 Mineral Spirits SDS US 9 / 10 927621 Version #: 01 Revision date: - Issue date: 17-June-2015

Toluene (CAS 108-88-3)

Trimethylbenzene (CAS 25551-13-7)

#### US. Pennsylvania Worker and Community Right-to-Know Law

1,2,4-Trimethylbenzene (CAS 95-63-6)

Ethylbenzene (CAS 100-41-4) Naphthalene (CAS 91-20-3) Nonane (CAS 111-84-2)

Stoddard solvent (CAS 8052-41-3)

Toluene (CAS 108-88-3)

Trimethylbenzene (CAS 25551-13-7)

#### **US. Rhode Island RTK**

1,2,4-Trimethylbenzene (CAS 95-63-6)

Ethylbenzene (CAS 100-41-4) Naphthalene (CAS 91-20-3) Toluene (CAS 108-88-3)

#### **US. California Proposition 65**

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

#### US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Ethylbenzene (CAS 100-41-4) Naphthalene (CAS 91-20-3) Toluene (CAS 108-88-3)

#### **International Inventories**

Country(s) or region

obanti y(b) or region	inventory name	
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

<sup>\*</sup>A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

Toxic Substances Control Act (TSCA) Inventory

#### 16. Other information, including date of preparation or last revision

Inventory name

17-June-2015 Issue date

**Revision date** Version # 01

United States & Puerto Rico

Health: 1\* **HMIS®** ratings

Flammability: 2 Physical hazard: 0

Heritage-Crystal Clean, LLC cannot anticipate all conditions under which this information and its **Disclaimer** 

product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently

available.

927621 Version #: 01 Revision date: - Issue date: 17-June-2015

Crystal Clean 106 Mineral Spirits SDS US

Yes

On inventory (yes/no)\*

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### SAFETY DATA SHEET



Issuing Date: 05-Oct-2015 Revision Date: 05-Oct-2015 Version 1

#### 1. IDENTIFICATION

Product Name Dawn Ultra Dishwashing Liquid, Original Scent

Product ID: 97591965 RET NG

**Product Type:** Finished Product - Consumer (Retail) Use Only

Recommended use Dish Care

**Restrictions on Use** Use only as directed on label.

Synonyms Dawn Ultra Dishwashing Liquid, Pomegranate Awakening (97591967\_RET\_NG)

Dawn Ultra Dishwashing Liquid, Apple Orchard Harvest (97591968\_RET\_NG)

Manufacturer PROCTER & GAMBLE - Fabric and Home Care Division

Ivorydale Technical Centre 5289 Spring Grove Avenue Cincinnati, Ohio 45217-1087 USA

Procter & Gamble Inc. P.O. Box 355, Station A Toronto, ON M5W 1C5 1-800-331-3774

E-mail Address pgsds.im@pg.com

**Emergency Telephone** Transportation (24 HR)

CHEMTREC - 1-800-424-9300 (U.S./ Canada) or 1-703-527-3887 Mexico toll free in country: 800-681-9531

#### 2. HAZARD IDENTIFICATION

"Consumer Products", as defined by the US Consumer Product Safety Act and which are used as intended (typical consumer duration and frequency), are exempt from the OSHA Hazard Communication Standard (29 CFR 1910.1200). This SDS is being provided as a courtesy to help assist in the safe handling and proper use of the product.

This product is classifed under 29CFR 1910.1200(d) and the Canadian Hazardous Products Regulation as follows:.

Hazard Category

Eye Damage / Irritation Category 2B
Signal Word WARNING

Hazard Statements Causes eye irritation

Hazard pictograms None

97591965\_RET\_NG - Dawn Ultra Dishwashing Liquid, Original Scent

**Precautionary Statements -**

Prevention

Wash hands thoroughly after handling

**Precautionary Statements -**

Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

Revision Date: 05-Oct-2015

present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

IF SWALLOWED:

Drink 1 or 2 glasses of water

**Precautionary Statements -**

Storage

None

**Precautionary Statements -**

**Disposal** 

None

Hazards not otherwise classified

(HNOC)

None

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients are listed according to 29CFR 1910.1200 Appendix D and the Canadian Hazardous Products Regulation

Chemical Name	Synonyms	Trade Secret	CAS-No	Weight %
Sulfuric acid, mono-C10-16-alkyl	Sulfuric acid,	No	68585-47-7	15 - 20
esters, sodium salts	mono-C10-16-alkyl			
	esters, sodium salts			
Poly(oxy-1,2-ethanediyl), alpha-sulfo-omega-hydroxy-, C10-16-alkyl ethers, sodium salts	Poly(oxy-1,2-ethanediyl), alpha-sulfo-omega-hydro xy-, C10-16-alkyl ethers, sodium salts		68585-34-2	5 - 10
Amine oxides, C10-16-alkyldimethyl	Amine oxides, C10-16-alkyldimethyl	No	70592-80-2	5 - 10
Ethanol	Ethanol	No	64-17-5	1 - 5

#### 4. FIRST AID MEASURES

#### First aid measures for different exposure routes

**Eye contact** Rinse with plenty of water. Get medical attention immediately if irritation persists.

**Skin contact** Rinse with plenty of water. Get medical attention if irritation develops and persists.

Ingestion Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately if

symptoms occur.

**Inhalation** Move to fresh air. If symptoms persist, call a physician.

Most important symptoms/effects,

acute and delayed

None under normal use conditions.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

97591965\_RET\_NG - Dawn Ultra Dishwashing Liquid, Original Scent

Suitable extinguishing media Dry chemical, CO 2, alcohol-resistant foam or water spray.

Unsuitable Extinguishing Media None.

Special hazard None known.

Special protective equipment for

fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH

Revision Date: 05-Oct-2015

(approved or equivalent) and full protective gear.

Specific hazards arising from the

chemical

None.

#### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Advice for emergency responders Use personal protective equipment as required.

#### Methods and materials for containment and cleaning up

Methods for containment Absorb with earth, sand or other non-combustible material and transfer to containers for

later disposal.

Methods for cleaning up Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand,

earth, diatomaceous earth, vermiculite) and place in container for disposal according to

local / national regulations (see section 13).

#### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Never return spills in original containers for re-use. Keep out of the reach of children.

#### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible products None known.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control parameters**

Exposure Guidelines

Chemical Name	CAS-No	ACGIH TLV	OSHA PEL	Mexico PEL
Ethanol	64-17-5	STEL: 1000 ppm	TWA: 1000 ppm	Mexico: TWA 1000 ppm
			TWA: 1900 mg/m <sup>3</sup>	Mexico: TWA 1900 mg/m <sup>3</sup>
			(vacated) TWA: 1000 ppm	_
			(vacated) TWA: 1900	
			mg/m³	

Chemical Name	CAS-No	Alberta	Quebec	Ontario TWAEV	British Columbia
Ethanol	64-17-5	TWA: 1000 ppm	TWA: 1000 ppm	STEL: 1000 ppm	STEL: 1000 ppm
		TWA: 1880 mg/m <sup>3</sup>	TWA: 1880 mg/m <sup>3</sup>		

No relevant exposure guidelines for other ingredients

#### **Exposure controls**

Engineering Measures Distribution, Workplace and Household Settings:

Ensure adequate ventilation

Product Manufacturing Plant (needed at Product-Producing Plant ONLY):

Where reasonably practicable this should be achieved by the use of local exhaust

Revision Date: 05-Oct-2015

ventilation and good general extraction

**Personal Protective Equipment** 

Eye Protection Distribution, Workplace and Household Settings:

No special protective equipment required

Product Manufacturing Plant (needed at Product-Producing Plant ONLY):

Use appropriate eye protection

Hand Protection Distribution, Workplace and Household Settings:

No special protective equipment required

Product Manufacturing Plant (needed at Product-Producing Plant ONLY):

Protective gloves

Skin and Body Protection Distribution, Workplace and Household Settings:

No special protective equipment required

Product Manufacturing Plant (needed at Product-Producing Plant ONLY):

Wear suitable protective clothing

Respiratory Protection Distribution, Workplace and Household Settings:

No special protective equipment required

Product Manufacturing Plant (needed at Product-Producing Plant ONLY):

In case of insufficient ventilation wear suitable respiratory equipment

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State @20°C liquid

Appearance Various color by product

Odor Scented

Odor threshold No information available

Property Values Note

pH value 9.0 - 9.2 10% aqueous solution

Melting/freezing point

Boiling point/boiling range
Flash point

Evaporation rate
Flammability (solid, gas)

No information available

No information available

No information available

Flammability Limits in Air

Upper flammability limitNo information availableLower Flammability LimitNo information availableVapor pressureNo information availableVapor densityNo information available

Relative density 1.04 Water solubility 100%

Solubility in other solvents

No information available

Partition coefficient: n-octanol/water No information available

Autoignition temperature

No information available

Decomposition temperature

No information available

Viscosity of Product No information available

VOC Content (%) Products comply with US state and federal regulations for VOC content in consumer

products.

#### 10. STABILITY AND REACTIVITY

Revision Date: 05-Oct-2015

**Reactivity** None under normal use conditions.

**Stability** Stable under normal conditions.

**Hazardous polymerization** Hazardous polymerization does not occur.

**Hazardous Reactions** None under normal processing.

**Conditions to Avoid** None under normal processing.

Materials to avoid None in particular.

Hazardous Decomposition Products None under normal use.

#### 11. TOXICOLOGICAL INFORMATION

#### **Product Information**

Information on likely routes of exposure

InhalationNo known effect.Skin contactNo known effect.IngestionNo known effect.Eye contactIrritating to eyes.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

No known effect. **Acute toxicity** Skin corrosion/irritation No known effect. Serious eye damage/eye irritation Irritating to eyes. Skin sensitization No known effect. Respiratory sensitization No known effect. Germ cell mutagenicity No known effect. **Neurological Effects** No known effect. Reproductive toxicity No known effect. **Developmental toxicity** No known effect. **Teratogenicity** No known effect. STOT - single exposure No known effect. STOT - repeated exposure No known effect. No known effect. **Target Organ Effects Aspiration hazard** No known effect. No known effect. Carcinogenicity

#### **Component Information**

Chemical Name	CAS-No	LD50 Oral	LD50 Dermal	LC50 Inhalation
Poly(oxy-1,2-ethanediyl),	68585-34-2	>2001 mg/kg	-	-
alpha-sulfo-omega-hydroxy-,				
C10-16-alkyl ethers, sodium salts				

#### 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

The product is not expected to be hazardous to the environment.

Persistence and degradability No information available.

97591965\_RET\_NG - Dawn Ultra Dishwashing Liquid, Original Scent

Bioaccumulative potential No information available.

**Mobility** No information available.

Other adverse effects No information available.

#### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment

Waste from Residues / Unused Products

Disposal should be in accordance with applicable regional, national and local laws and

Revision Date: 05-Oct-2015

regulations.

Contaminated packaging Disposal should be in accordance with applicable regional, national and local laws and

regulations.

California Hazardous Waste Codes 331

(non-household setting)

#### 14. TRANSPORT INFORMATION

DOTNot regulatedIMDGNot regulatedIATANot regulated

#### 15. REGULATORY INFORMATION

#### U.S. Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	CAS-No	Hazardous Substances RQs	Extremely Hazardous Substances RQs	CERCLA/SARA 302 TPQ
Sodium hydroxide	1310-73-2	1000 lb	-	

#### Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following substance(s) which are either listed as hazardous air pollutants (HAPS) or VOC's per the Clean Air Act:

Chemical Name	CAS-No	CAA (Clean Air Act) - 1990 Hazardous Air Pollutants
Phenoxyethanol	122-99-6	X

#### **Clean Water Act**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical Name	CAS-No	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium hydroxide	1310-73-2	1000 lb	-	-	X

#### California Proposition 65

This product is not subject to warning labeling under California Proposition 65.

#### U.S. State Regulations (RTK)

Chemical Name	CAS-No	New Jersey
Ethanol	64-17-5	X

Revision Date: 05-Oct-2015

Chemical Name	CAS-No	Massachusetts	
Ethanol	64-17-5	X	

Chemical Name	CAS-No	Pennsylvania
Ethanol	64-17-5	X
Sodium hydroxide	1310-73-2	X
Phenoxyethanol	122-99-6	X

#### **International Inventories**

#### **United States**

All intentionally-added components of this product(s) are listed on the US TSCA Inventory.

#### Canada

This product is in compliance with CEPA for import by P&G.

#### Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

**CEPA** - Canadian Environmental Protection Act

#### **16. OTHER INFORMATION**

**Issuing Date:** 05-Oct-2015 **Revision Date:** 05-Oct-2015

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of SDS** 

## POWER SERVICE PRODUCTS, INC. SAFETY DATA SHEET



#### **SECTION 1 - IDENTIFICATION**

PRODUCT NAME: DIESEL FUEL SUPPLEMENT +CETANE BOOST

Unless otherwise noted, all sections of this SDS apply to each of the following products and part numbers.

#### **PART NUMBERS:**

1:400 Treatment Ratio	1016-06, 1016-09, 1025-06, 1025-09, 1025-12, 1080-06, 11016-06, 11016-09, 11025-06, 11025-12, 11080-06
1:1,000 Treatment Ratio	1000, 1128-04, 1060-01
1:1,500 Treatment Ratio	1050-02, 1055-01, 1260-01

#### **COMPANY IDENTIFICATION:**

Power Service Products, Inc.

P.O. Box 1089

Weatherford, TX 76086

Email: psp@powerservice.com

Phone: 800-643-9089 or 817-599-9486

Fax: 817-599-4893

Emergency Phone Number: Within USA 1-800-424-9300. Outside USA 001-703-527-3887 (Call Collect).

**RECOMMENDED USES:** Diesel fuel additive

#### **SECTION 2 – HAZARD(S) IDENTIFICATION**

#### **CLASSIFICATION UNDER 29 CFR 1910.1200(d)**

#### (NC=product does not meet classification criteria)

	1:400	1:1000	1:1500
	Treatment	Treatment	Treatment
	Ratio	Ratio	Ratio
Health Hazard Criteria	Category	Category	Category
Acute Toxicity, Oral:	NC	NC	NC
Acute Toxicity, Dermal:	NC	NC	NC
Acute Toxicity, Inhalation, Vapors:	3	3	3
Skin Corrosion/Irritation:	2	2	2
Serious Eye Damage/Eye Irritation:	2	2	2

Revised: November 3, 2016 Supersedes: September 28, 2015

	1:400 Treatment Ratio	1:1000 Treatment Ratio	1:1500 Treatment Ratio
Health Hazard Criteria	Category	Category	Category
Respiratory Sensitization:	NC	NC	NC
Skin Sensitization:	NC	NC	NC
Germ Cell Mutagenicity:	NC	NC	NC
Carcinogenicity:	2	2	2
Reproductive Toxicity:	NC	NC	NC
Specific Target Organ Toxicity, Single Exposure:	3	3	3
Specific Target Organ Toxicity, Repeated or Prolonged Exposure:	NC	NC	NC
Aspiration Hazard:	1	1	1

	1:400	1:1000	1:1500
	Treatment	Treatment	Treatment
	Ratio	Ratio	Ratio
Physical Properties Criteria	Category	Category	Category
Explosives:	NC	NC	NC
Flammable Gases:	NC	NC	NC
Flammable Aerosols:	NC	NC	NC
Oxidizing Gases:	NC	NC	NC
Gases Under Pressure:	NC	NC	NC
Flammable Liquids:	3	3	3
Flammable Solids:	NC	NC	NC
Self-Reactive Chemicals:	NC	NC	NC
Pyrophoric Liquids:	NC	NC	NC
Pyrophoric Solids:	NC	NC	NC
Self-Heating Chemicals:	NC	NC	NC
Chemicals Which, in Contact with Water,	NC	NC	NC
Emit Flammable Gases:			
Oxidizing Liquids:	NC	NC	NC
Oxidizing Solids:	NC	NC	NC
Organic Peroxides:	NC	NC	NC
Corrosive to Metals:	NC	NC	NC

## LABEL SIGNAL WORD, HAZARD STATEMENTS, SYMBOLS AND PRECAUTIONARY STATEMENTS UNDER 29 CFR 1910.1200(f):

#### Please see the Note regarding product labeling in Section 16.

	1:400 Treatment Ratio	1:1000 Treatment Ratio	1:1500 Treatment Ratio
Signal Word	Danger	Danger	Danger

Revised: November 3, 2016 Supersedes: September 28, 2015

**Hazard Statement(s):** Flammable liquid and vapor. Toxic if inhaled. May be fatal if swallowed and enters airways. Harmful if swallowed. Causes skin and serious eye irritation. May cause respiratory irritation and drowsiness or dizziness.

**Symbols:** The following symbols are for all treatment ratios.









**Precautionary Statement(s):** Keep away from sparks and open flames. No smoking. Keep container tightly closed. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing vapors. Use only outdoors or in a well-ventilated area. Wash hands thoroughly after handling. Wear protective gloves and eye protection. Store locked up and in cool, well ventilated place. KEEP OUT OF REACH OF CHILDREN.

Hazards Not Otherwise Classified: None

#### **SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS**

The specific chemical identity and exact concentration percentage has been withheld as a Trade Secret. Specific chemical information will be made available to health professionals in accordance with 29 CFR 1910.1200.

#### **INGREDIENTS CLASSIFIED AS HEALTH HAZARDS**

TREATMENT RATIO 1:400			
Chemical Name	Common Name/Synonyms	CAS Number	Concentration (%)
Petroleum Distillates	Trade secret	Trade secret	25 - 75
Hydroxy alkoxylate	Trade secret	Trade secret	5 - 15
Alkyl Nitrates	Trade secret	Trade secret	2 – 8
Aromatic hydrocarbons	Trade secret	Trade secret	0.5 - 2
Naphthalene	Not available	91-20-3	0.05 - 0.2

TREATMENT RATIO 1:1000			
Chemical Name	Common Name/Synonyms	CAS Number	Concentration (%)
Petroleum Distillates	Trade secret	Trade secret	35 - 85
Alkyl Nitrates	Trade secret	Trade secret	5 - 15
Aromatic Hydrocarbons	Trade secret	Trade secret	1 - 5
Hexan-1-ol, 2-ethyl	Trade secret	Trade secret	1 - 5
Naphthalene	Not available	91-20-3	0.1 - 0.5

Revised: November 3, 2016 Supersedes: September 28, 2015

TREATMENT RATIO 1:1500			
Chemical Name	Common Name/Synonyms	CAS Number	Concentration (%)
Petroleum Distillates	Trade secret	Trade secret	25 - 75
Alkyl Nitrates	Trade secret	Trade secret	8 - 22
Aromatic Hydrocarbons	Trade secret	Trade secret	2 - 8
Hexan-1-ol, 2-ethyl	Trade secret	Trade secret	1 – 5
Naphthalene	Not available	91-20-3	0.1 – 0.5

#### **SECTION 4 - FIRST AID MEASURES**

As a precaution, exposure to liquids, vapors, mists and fumes should be minimized.

**EYE CONTACT:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice.

**SKIN CONTACT:** Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs get medical advice/attention.

**INHALATION:** Remove person to fresh air and keep comfortable for breathing. Call a doctor.

INGESTION: If swallowed, IMMEDIATELY call a doctor. Do NOT induce vomiting.

#### **SECTION 5 - FIRE FIGHTING MEASURES**

**EXTINGUISHING MEDIA:** Use water fog, alcohol-resistant foam, dry chemical or carbon dioxide (CO<sub>2</sub>) to extinguish flames.

**SPECIFIC HAZARDS:** Vapors are heavier than air and may travel along the ground to a distant ignition source and flash back. See Section 10 for Stability and Reactivity. **NOTE:** EMPTY CONTAINERS CONTAIN COMBUSTIBLE VAPORS THAT CAN CAUSE FLASH FIRES OR EXPLOSIONS. CONTAINERS ARE SINGLE-TRIP CONTAINERS AND SHOULD NOT BE USED FOR ANY REASON AFTER BEING EMPTIED. DO NOT USE CUTTING TORCH EQUIPMENT OR ANY OTHER FLAME OR OTHER SOURCES OF IGNITION ON ANY EMPTY CONTAINER.

**PROTECTIVE EQUIPMENT AND PRECAUTIONS**: Use standard protective equipment including self-contained breathing apparatus (SCBA).

#### **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES: Avoid contact with spilled material. Warn or evacuate occupants in surrounding and downwind areas. Eliminate

Revised: November 3, 2016 Supersedes: September 28, 2015

all sources of ignition in the vicinity of the spill or released vapor. See Section 2 for Hazards Identification. See Section 4 for First Aid Measures. See Section 5 for Fire Fighting Information. See Section 8 for Personal Protective Equipment.

**SPILL CONTAINMENT AND CLEAN-UP:** Eliminate potential sources of ignition. Stop leak if it can be done without risk. Dike and contain spill. Do not touch or walk through spilled material. Prevent entry into waterways, sewer, basements or confined areas. Remove with vacuum trucks or pump to storage/salvage vessels. Soak up residue with an absorbent such as clay, sand or other suitable material and dispose of properly. A vapor suppressing foam may be used to reduce vapors. Local, state and federal laws and/or regulations may apply to releases and disposal of this material, as well as those materials and items employed in the clean-up releases. The user/responder will need to determine which local, state and federal laws and/or regulations are applicable. The National Response Center can be reached at 1-800-424-8802.

#### **SECTION 7 - HANDLING AND STORAGE**

**PRECAUTIONS FOR SAFE HANDLING**: Avoid contact with eyes and skin. Use only with adequate ventilation. Use proper bonding and/or grounding procedures. Prevent small spills and leakage to avoid slip hazard. Material can accumulate static charges which may cause an electrical spark (ignition source). Keep away from ignition sources such as heat, sparks, and flames. No smoking.

**CONDITIONS FOR SAFE STORAGE:** DO NOT USE OR STORE near heat, sparks, or flame. USE AND STORE ONLY IN A WELL-VENTILATED AREA. Handle containers with care. Keep container tightly closed when not in use. Store locked up.

#### STORAGE TEMPERATURE:

Treatme	ent Ratio	Part Numbers:	Storage Temperature:
1:400 Ratio	Treatment	1016-06, 1016-09, 1025-06, 1025-12, 1080-06, 11016-06, 11016-09, 11025-06, 11025-12, 11041-04, 11080-06	-20°F to 104°F (-29°C to 40°C)
1:1,000 Ratio	Treatment	1000, 1128-04, 1060-01	0°F to 104°F (-18°C to 40°C)
1:1,500 Ratio	Treatment	1050-02, 1055-01, 1260-01	10°F to 104°F (-12°C to 40°C)

**EMPTY CONTAINER WARNING:** EMPTY CONTAINERS MAY CONTAIN COMBUSTIBLE VAPORS AND CAN BE DANGEROUS. SEE SECTION 5 FOR FIRE AND EXPLOSION HAZARD DATA.

#### **SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

#### **EXPOSURE GUIDELINES:**

		OSHA	ACGIH	NIOSH				
	CAS#	PEL	TLV	STEL	REL	STEL	IDLH	Note
Ethylbenzene	100-41-4	100 ppm	20 ppm	not est.	100 ppm	125 ppm	800 ppm (LEL)	n/a

Revised: November 3, 2016 Supersedes: September 28, 2015

		OSHA	ACGIH	NIOSH				
	CAS#	PEL	TLV	STEL	REL	STEL	IDLH	Note
Naphthalene	91-20-3	10 ppm	10 ppm	not est.	10 ppm	15 ppm	250 ppm	skin
Petroleum Distillates	n/a	500 ppm	not est.	n/a				
Cumene	98-82-8	50 ppm	50 ppm	not est.	50 ppm	not est.	900 ppm (LEL)	Skin
Toluene	108-88-3	100 ppm	20 ppm	not est.	100 ppm	150 ppm	500 ppm	Skin
Hydroxy Alkoxylate	Proprietary	50 ppm	20 ppm	not est.	5 ppm	not est.	not est.	skin

**ENGINEERING CONTROLS:** The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Local exhaust ventilation is recommended to control exposure.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE):

**Eyes and Face:** Eye protection such as safety glasses or chemical goggles is recommended if contact is likely.

**Skin:** Protective chemical/oil resistant gloves are recommended. Wear additional protective clothing as appropriate.

**Respiratory:** Wear a NIOSH/MSHA approved respirator as necessary.

**Specific Hygiene Measures:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Practice good housekeeping.

**NOTE:** These precautions are for room temperature handling.

#### **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

	1:400 Treatment	1:1000 Treatment	1:1500 Treatment
	Ratio	Ratio	Ratio
Appearance	Liquid, brown	Liquid, brown	Liquid, brown
Odor	Aromatic solvent	Aromatic solvent	Aromatic solvent
Odor Threshold	Not available	Not available	Not available
рН	Not applicable	Not applicable	Not applicable
Melting point/Freezing point	Not available	Not available	Not available
Initial Boiling Point and Boiling	224 FoF (40F 20C)	262 4°F (429 0°C)	264 7°F (427 6°C)
Range	221.5°F (105.3°C)	262.4°F (128.0°C)	261.7°F (127.6°C)
Flash Point	101°F (38.3°C)	111°F (43.3°C)	107°F (41.7°C)
Evaporation Rate	Not available	Not available	Not available
Flammability	Not available	Not available	Not available
Upper / lower Flammability or	Not available	Not available	Not available
Explosive Limits	INUL available	inut available	INUL available
Vapor Pressure	Not available	Not available	Not available

Revised: November 3, 2016 Supersedes: September 28, 2015

	1:400 Treatment Ratio	1:1000 Treatment Ratio	1:1500 Treatment Ratio
Vapor Density	Not available	Not available	Not available
Relative Density/Specific Gravity	0.9238	0.9281	0.9317
Solubility	Not available	Not available	Not available
Partition Coefficient; n-octanol / water	Not available	Not available	Not available
Auto-ignition Temperature	Not available	Not available	Not available
Decomposition temperature	Not available	Not available	Not available
Viscosity	Not available	Not available	Not available
Pour Point	-55°F (-48°C)	-30°F (-34°C)	-15°F (-26°C)

#### **SECTION 10 - STABILITY AND REACTIVITY**

**REACTIVITY:** see Incompatible Materials below

**CHEMICAL STABILITY:** This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

POSSIBILITY OF HAZARDOUS REACTION: Hazardous polymerization will not occur.

**CONDITIONS TO AVOID:** Flames, high energy ignition sources, and elevated temperatures.

**INCOMPATIBLE MATERIALS:** May react with strong oxidizing agents, such as; chlorates, nitrates, peroxides, nitrogen oxides, sulfur oxides, etc.; alkalis; nitric acid; sulfuric acid; aluminum; brass; copper; reducing agents.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon oxides, products of incomplete combustion.

#### **SECTION 11 - TOXICOLOGICAL INFORMATION**

#### LIKELY ROUTES OF EXPOSURE

	INGESTION	INHALATION	SKIN CONTACT	EYE CONTACT	SKIN ABSORPTION
1:400 Treatment Ratio		Х	Х	Х	Х
1:1000 Treatment Ratio		Х	Х	Х	Х
1:1500 Treatment Ratio		Х	Х	Х	Х

#### SYMPTOMS RELATED TO PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS:

Breathing of high vapor concentrations may cause dizziness, light-headedness, headache, nausea and loss of coordination. Continued inhalation may result in unconsciousness. The vapor or fumes from this material may cause respiratory irritation. Breathing this material at elevated concentrations causes central nervous system effects. Central nervous system effects may include headache, dizziness, nausea, vomiting, weakness, loss of coordination, blurred vision, drowsiness, confusion or disorientation. At

Revised: November 3, 2016 Supersedes: September 28, 2015

### **SECTION 12 - ECOLOGICAL INFORMATION**

**ECOTOXICITY:** This material is expected to be toxic to aquatic organisms.

**PERSISTENCE AND DEGRADABILITY**: No information available.

**BIOACCUMULATIVE POTENTIAL:** No information available.

**MOBILITY IN SOIL**: No information available.

**OTHER ADVERSE EFFECTS**: No information available.

# **SECTION 13 - DISPOSAL CONSIDERATIONS**

**RCRA Information:** Disposal of unused product may be subject to RCRA hazardous waste regulations (40 CFR Part 261). Disposal of the used product may also be regulated as hazardous waste due to resulting mixture characteristics, mixture components or product use. Such changes to the product may result in different and/or additional hazardous waste codes. Potential RCRA waste code based on the product as shipped: D001 IGNITABILITY

State or local laws may impose additional regulatory requirements regarding disposal. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

**EMPTY CONTAINER WARNING:** EMPTY CONTAINERS MAY CONTAIN COMBUSTIBLE VAPORS AND CAN BE DANGEROUS. SEE SECTION 5 FOR FIRE AND EXPLOSION HAZARD DATA. Dispose or recycle empty containers appropriately per local, state and federal regulations.

# **SECTION 14 - TRANSPORTATION INFORMATION**

# The following part numbers are not regulated by DOT:

1:400 Treatment Ratio	1016-06, 1016-09, 1025-06, 1025-09, 1025-12, 1080-06, 11016-06, 11016-09, 11025-06, 11025-12, 1080-06
1:1,000 Treatment Ratio	1128-04
1:1,500 Treatment Ratio	1050-02, 1055-01

# The following part numbers are regulated by DOT:

1:1,000 Treatment Ratio	1060-01, 1000
1:1,500 Treatment Ratio	1260-01

PROPER SHIPPING NAME: Combustible Liquid, N.O.S., (Petroleum Distillates) Marine Pollutant

(2-Ethylhexyl Nitrate & 1,3,5-trimethylbenzene) RQ (Xylene, Naphthalene)

HAZARD CLASS: Combustible Liquid

Revised: November 3, 2016 Supersedes: September 28, 2015

I.D. NUMBER: NA 1993 PACKING GROUP: III

PLACARDING: Combustible Liquid

**MARINE POLLUTANT: Yes** 

PRODUCT RQ: 100 lbs. (45.45 kg) - Xylene, Naphthalene

# **SECTION 15 - REGULATORY INFORMATION**

# §14(a) Consumer Product Safety Act General Certificate of Conformity

Power Service Products, Inc. certifies that this product meets the statutory and regulatory requirements of the US Consumer Products Safety Act, the Federal Hazardous Substances Act, and the Poison Prevention Packaging Act of 1970, as applicable. The Power Service products are manufactured in the United States in Weatherford, Texas, unless otherwise indicated on the product label. The product manufacture lot code is stamped on the product container. This Certification is based upon a reasonable testing program conducted by Power Service Products, Inc. which includes a quality control program incorporating, as necessary, confirmation of compliance by component suppliers. Third-party testing is not required to certify compliance. Further details may be obtained by contacting the Power Service Products, Inc. EHS Manager at 1-800-643-9089.

Contents of this SDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

#### **TSCA STATUS:**

All chemical substances found in this product comply with the Toxic Substances Control Act inventory reporting requirements.

#### **EPA SARA TITLE III CHEMICAL LISTINGS:**

Section 302 Extremely Hazardous Substances: None

### Sections 311/312 Hazard Class:

Acute Health Effects: Yes Sudden Release of Pressure Hazard: No

Chronic Health Effects: Yes Reactivity Hazard: No

Fire Hazard: Yes

# NFPA (NATIONAL FIRE PROTECTION ASSOCIATION) RATING:

HEALTH: 2 FIRE: 2

REACTIVITY: 0

# Section 313:

Specific chemical information is being withheld as a Trade Secret. The following chemicals subject to the reporting requirements of EPCRA Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (40 CFR Part 372) may be present in this product at a concentration that does not exceed the specified upper weight percentage.

Revised: November 3, 2016 Supersedes: September 28, 2015

Treatment Ratio	CAS Number	Chemical Name	Max %
1:400 Treatment Ratio	100-41-4	Ethylbenzene	1.5
	Not available	Glycol Ether Category	8.0
	91-20-3	Naphthalene	0.2
1:1000 Treatment Ratio	100-41-4	Ethylbenzene	0.2
	Not available	Glycol Ether Category	0.4
	91-20-3	Naphthalene	0.3
1:1,500 Treatment Ratio	100-41-4	Ethylbenzene	0.2
	Not available	Glycol Ether Category	0.6
	91-20-3	Naphthalene	0.5

State or local laws may impose additional regulatory requirements for components of this material. It is the responsibility solely of the Employer to maintain compliance with State and Local reporting.

This product contains a chemical known to the state of California to cause cancer and/or birth defects or other reproductive harm: ethylbenzene, toluene, cumene, naphthalene.

### SECTION 16 – OTHER INFORMATION

DATE OF PREPARATION / REVISION: November 3, 2016

NOTE regarding product labeling: The OSHA Hazard Communication Standard applies to hazardous chemicals known to be present in the workplace. However, the labeling and Safety Data Sheet requirements do not apply to consumer products when they are used in the workplace for the purposes intended by the manufacturer and the use results in a duration and frequency of exposure which is not greater than the range of exposures that could reasonably be experienced by consumers when used for the intended purpose. Power Service Products intends for product packaged in 1 gallon or smaller containers to be used by consumers and has labeled those containers as required under the Consumer Product Safety Commission regulations. Power Service Products intends for product packaged in containers larger than 1 gallon to be used in the workplace and has labeled those products as required by the OSHA Hazard Communication Standard. The Consumer Product Safety Commission and OSHA Hazard Communication Standard labeling requirements are different and variations between the consumer and industrial labels may occur. It is the employer's responsibility to purchase the appropriate product for use in the workplace.

The information contained herein is offered in good faith and is believed to be accurate based on the data available to us as of the date of SDS preparation. The information in this document applies to this specific product as supplied. It may not be appropriate for this product if the product is used in combination with other materials. The information in this document is not intended to constitute product performance information. Some of the information presented and conclusions drawn herein are from sources other than direct test data on the product. No statement shall be construed as an endorsement of any product or process. The recommended industrial hygiene and safe handling procedures are believed to be valid in the context of the intended use as described in product labeling. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate. You are urged to obtain material safety data sheets for all products you buy, process, use or distribute, and are encouraged to advise those who may come in contact with such products of the information

Revised: November 3, 2016 Supersedes: September 28, 2015

contained therein. Regulatory requirements are subject to change and may differ between locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. No warranty or guarantee is expressed or implied with respect to this product, the accuracy and sufficiency of the data or recommendations herein, or the results to be obtained from the use of this product. IN NO EVENT SHALL POWER SERVICE PRODUCTS, INC. BE LIABLE FOR ANY LOSS, CLAIM, DAMAGE OR LIABILITY OF ANY KIND, WHICH MAY ARISE FROM OR IN CONNECTION WITH THE INFORMATION CONTAINED IN THIS DOCUMENT OR FROM THE USE, HANDLING OR STORAGE OF THE PRODUCT BY THE BUYER/USER, WHETHER DIRECT, INDIRECT, OR CONSEQUENTIAL, OR FOR ANY CLAIM BY ANY THIRD PARTY, BEYOND THE PURCHASE PRICE OR REPLACEMENT OF THE PRODUCT IN CONNECTION WITH WHICH SUCH LOSS, CLAIM, DAMAGE OR LIABILITY AROSE.

THE FOREGOING LIMITATIONS APPLY REGARDLESS OF THE CAUSES OR CIRCUMSTANCES GIVING RISE TO SUCH LOSS, CLAIM, DAMAGE OR LIABILITY, EVEN IF SUCH LOSS, CLAIM, DAMAGE, OR LIABILITY IS BASED ON NEGLIGENCE OR OTHER TORTS OR BREACH OF CONTRACT.

Revised: November 3, 2016 Supersedes: September 28, 2015

# SAFETY DATA SHEET Dura II A/C Flush Solvent

According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200

### 1. Identification

**Product identifier** 

Product name Dura II A/C Flush Solvent

**Product number** 69991, 69992, 409889, A99889

Recommended use of the chemical and restrictions on use

**Application** Cleaning agent.

Details of the supplier of the safety data sheet

**Supplier** Four Seasons

1801 Waters Ridge Drive Lewisville, TX 75057

Manufacturer MICROCARE CORPORATION

595 John Downey Drive New Britain, CT 06051 United States of America

CAGE: OATV9

Tel: + 1 800 638 0125, +1 860-827-0626

Fax: +1 860-827-8105 techsupport@microcare.com

Emergency telephone number

Emergency telephone CHEMTREC 1-800-424-9300 (within the U.S.)

+1 703-741-5970 (from anywhere in the world)

# 2. Hazard(s) identification

# Classification of the substance or mixture

OSHA Regulatory Status This Product is Hazardous under the OSHA Hazard Communication Standard.

Physical hazards Not Classified

**Health hazards** Acute Tox. 4 - H332

**Environmental hazards** Aquatic Chronic 3 - H412

Human health Prolonged or repeated contact with skin may cause irritation, redness and dermatitis. Mild

dermatitis, allergic skin rash.

Environmental The product contains a substance which is harmful to aquatic organisms and which may

cause long-term adverse effects in the aquatic environment.

Physicochemical Vapors are heavier than air and may travel along the floor and accumulate in the bottom of

containers. Gas or vapor displaces oxygen available for breathing (asphyxiant).

Label elements

**Pictogram** 



Signal word Warning

### **Dura II A/C Flush Solvent**

Hazard statements H332 Harmful if inhaled.

H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements** P102 Keep out of reach of children.

P261 Avoid breathing vapor/ spray.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.

P312 Call a poison center/ doctor if you feel unwell.

P404 Store in a closed container.

P501 Dispose of contents/ container in accordance with national regulations.

Supplemental label

information

Safety data sheet available on request. For use in industrial installations only.

Contains trans-DICHLOROETHYLENE

### Other hazards

This product does not contain any substances classified as PBT or vPvB.

# 3. Composition/information on ingredients

#### **Mixtures**

# trans-DICHLOROETHYLENE 60-100%

CAS number: 156-60-5

#### Classification

Flam. Liq. 2 - H225 Acute Tox. 4 - H332 Aquatic Chronic 3 - H412

# 1,1,1,2,2,3,4,5,5,5-decafluoropentane

10-30%

CAS number: 138495-42-8

#### Classification

Aquatic Chronic 3 - H412

### 1,1,1,3,3-PENTAFLUOROBUTANE

5-10%

CAS number: 406-58-6

### Classification

Flam. Liq. 2 - H225

# **DIMETHYL CARBONATE**

1-5%

CAS number: 616-38-6

# Classification

Flam. Liq. 2 - H225

The full text for all hazard statements is displayed in Section 16.

# Composition comments

The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of CFR 1900.1200 TSCA: The ingredients of this product are on the TSCA Inventory.

### **Dura II A/C Flush Solvent**

Ingredient notes PROPOSITION 65: This product does not contain chemicals considered by the State of

California's Safe Drinking Water and Toxic Enforcement Act of 1986 as causing cancer or

reproductive toxicity and for which warnings are now required.

Composition

### 4. First-aid measures

#### Description of first aid measures

**General information** Never give anything by mouth to an unconscious person. Do not induce vomiting. Place

unconscious person on the side in the recovery position and ensure breathing can take place.

If breathing stops, provide artificial respiration. Consult a physician for specific advice.

**Inhalation** Move affected person to fresh air and keep warm and at rest in a position comfortable for

breathing. When breathing is difficult, properly trained personnel may assist affected person

by administering oxygen. Get medical attention.

**Ingestion** Never give anything by mouth to an unconscious person. Do not induce vomiting. If vomiting

occurs, the head should be kept low so that vomit does not enter the lungs. Place unconscious person on their side in the recovery position and ensure breathing can take

place. Get medical attention immediately.

Skin Contact Wash skin thoroughly with soap and water. Remove contaminated clothing and rinse skin

thoroughly with water. Get medical attention if irritation persists after washing.

Eye contact Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15

minutes and get medical attention.

#### Most important symptoms and effects, both acute and delayed

General information The severity of the symptoms described will vary dependent on the concentration and the

length of exposure. Extensive use of the product in areas with inadequate ventilation may result in the accumulation of hazardous vapor concentrations. May cause discomfort.

Symptoms following overexposure may include the following: Headache. Dizziness. Nausea,

vomiting.

**Inhalation** May cause an asthma-like shortness of breath. Vapors may cause headache, fatigue,

dizziness and nausea. Arrhythmia (deviation from normal heart beat).

**Ingestion** Pulmonary edema, frothy sputum.

Skin contact Skin irritation. Prolonged or repeated contact with skin may cause irritation, redness and

dermatitis.

Eye contact May cause temporary eye irritation. Irritating to eyes. Symptoms following overexposure may

include the following: Redness. Pain.

### Indication of immediate medical attention and special treatment needed

Notes for the doctor 
No specific recommendations. If in doubt, get medical attention promptly.

### 5. Fire-fighting measures

### Extinguishing media

media

Suitable extinguishing media The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing

Water spray. Never use water by itself on spillage; this will spread the spill and cause further

contamination.

### Special hazards arising from the substance or mixture

**Flammability Class** The product is not flammable. Tag closed cup.

### **Dura II A/C Flush Solvent**

Specific hazards Keep away from heat, sparks and open flame. Thermal decomposition or combustion

products may include the following substances: Toxic and corrosive gases or vapors. Closed

containers can burst violently when heated, due to excess pressure build-up.

Hazardous combustion

products

Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and

other toxic gases or vapors. Fire creates: Carbonyl compounds. Chlorides.

Advice for firefighters

Protective actions during

firefighting

Containers close to fire should be removed or cooled with water.

Special protective equipment for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective

clothing.

#### 6. Accidental release measures

# Personal precautions, protective equipment and emergency procedures

Personal precautions Warn everybody of potential hazards and evacuate if necessary. Provide adequate ventilation.

Avoid inhalation of vapors. Use approved respirator if air contamination is above an acceptable level. No smoking, sparks, flames or other sources of ignition near spillage. Follow precautions for safe handling described in this safety data sheet. For personal protection, see

Section 8.

**Environmental precautions** 

**Environmental precautions** Contain spillage with sand, earth or other suitable non-combustible material. Avoid release to

the environment.

### Methods and material for containment and cleaning up

Methods for cleaning up Absorb spillage with non-combustible, absorbent material. Do not discharge into drains or

watercourses or onto the ground. Contain and absorb spillage with sand, earth or other non-combustible material. Collect spillage with a shovel and broom, or similar and reuse, if possible. Dispose of waste to licensed waste disposal site in accordance with the

requirements of the local Waste Disposal Authority. It is recommended that gloves are made

of the following material: Neoprene.

Reference to other sections For personal protection, see Section 8. See Section 11 for additional information on health

hazards. For waste disposal, see section 13.

# 7. Handling and storage

### Precautions for safe handling

**Usage precautions** Provide adequate ventilation. Avoid inhalation of vapors/spray and contact with skin and eyes.

# Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place.

**Storage class** Unspecified storage. The product is not flammable.

Specific end uses(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.

Reference to other sections. Store away from incompatible materials (see Section 10).

# 8. Exposure Controls/personal protection

### Control parameters

# Occupational exposure limits

trans-DICHLOROETHYLENE

### **Dura II A/C Flush Solvent**

Long-term exposure limit (8-hour TWA): ACGIH 200 ppm 793 mg/m<sup>3</sup>

### 1,1,1,2,2,3,4,5,5,5-decafluoropentane

No information available that would effect occupational exposure limit values.

#### 1,1,1,3,3-PENTAFLUOROBUTANE

Long-term exposure limit (8-hour TWA): SUP 1000 ppm

#### **DIMETHYL CARBONATE**

No information available that would effect occupational exposure limit values. ACGIH = American Conference of Governmental Industrial Hygienists.

# **Additional Occupational**

**Exposure Limits** 

Ingredient comments WEL = Workplace Exposure Limits

### **Exposure controls**

# Protective equipment





Appropriate engineering controls

No specific ventilation requirements. This product must not be handled in a confined space without adequate ventilation.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses. Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles or face shield.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. It is recommended that gloves are made of the following material: Nitrile rubber. Polyvinyl alcohol (PVA). Viton rubber (fluoro rubber).

Other skin and body protection

Wear suitable protective clothing as protection against splashing or contamination. Wear apron or protective clothing in case of contact.

Hygiene measures

Avoid inhalation of spray mist and contact with skin and eyes. When using do not eat, drink or smoke. Wash at the end of each work shift and before eating, smoking and using the toilet.

Respiratory protection

Vapors are heavier than air and may travel along the floor and accumulate in the bottom of containers. In confined or poorly-ventilated spaces, a supplied-air respirator must be worn.

Wear self-contained breathing apparatus with full facepiece.

Thermal hazards

Keep away from heat, sparks and open flame. Thermal decomposition or combustion products may include the following substances: Toxic and corrosive gases or vapors.

### 9. Physical and Chemical Properties

# Information on basic physical and chemical properties

Appearance Clear liquid.

Color Colorless.

Odor Slight, Ether.

Odor threshold No information available.

# Dura II A/C Flush Solvent

**pH** No information available.

Melting point No information available.

Initial boiling point and range estimated 41°C/106°F @ 101.3 kPa

Flash point The product is not flammable. Tag Closed Cup (ASTM D 56)

**Evaporation rate** >1 (ethanol = 1)

**Evaporation factor** No information available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or

explosive limits

Upper flammable/explosive limit: 13.5 %(V) Lower flammable/explosive limit: 4.3 %(V)

Vapor pressure 37.9 kPa @ 25°C

Vapor density 3.4

Relative density 1.30 @ 25°C

Bulk density Not applicable.

Solubility(ies)

Partition coefficient

No information available.

Auto-ignition temperature

No information available.

No information available.

Viscosity

No information available.

**Refractive index** No information available.

Particle size Not applicable.

Molecular weight Not applicable.

Volatility 100%

Saturation concentration No information available.

Critical temperature No information available.

Volatile organic compound This product contains a maximum VOC content of 975 g/l.

**Flammability** The product is not flammable.

10. Stability and reactivity

Reactivity The following materials may react strongly with the product: Alkaline earth metals. Powdered

metal.

**Stability** Stable at normal ambient temperatures and when used as recommended.

Possibility of hazardous

reactions

Will not polymerize.

Conditions to avoid Keep away from heat, sparks and open flame. Thermal decomposition or combustion

products may include the following substances: Toxic and corrosive gases or vapors.

Materials to avoid Alkali metals. Alkaline earth metals. Powdered metal.

# **Dura II A/C Flush Solvent**

Hazardous decomposition

products

Heating may generate the following products: Toxic and corrosive gases or vapors.

Halogenated hydrocarbons. Hydrogen fluoride (HF). Carbon dioxide (CO2). Carbon monoxide

(CO).

### 11. Toxicological information

Information on toxicological effects

Acute toxicity - inhalation

ATE inhalation (vapours mg/l) 14.67

Inhalation Vapors may irritate throat/respiratory system. A single exposure may cause the following

adverse effects: Coughing. Difficulty in breathing.

Ingestion May cause stomach pain or vomiting. May cause nausea, headache, dizziness and

intoxication.

**Skin Contact** Product has a defatting effect on skin. May cause allergic contact eczema.

Eye contact May cause temporary eye irritation.

**Medical Symptoms** Gas or vapor in high concentrations may irritate the respiratory system. Symptoms following

overexposure may include the following: Headache. Fatigue. Nausea, vomiting.

#### Toxicological information on ingredients.

### trans-DICHLOROETHYLENE

Other health effects There is no evidence that the product can cause cancer.

Acute toxicity - inhalation

ATE inhalation (vapours

mg/l)

1,1,1,2,2,3,4,5,5,5-decafluoropentane

Acute toxicity - oral

Acute toxicity oral (LD₅o

mg/kg)

5,000.0

11.0

**Species** Rat

ATE oral (mg/kg) 5,000.0

Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> 5,000.0

mg/kg)

**Species** Rat

5,000.0 ATE dermal (mg/kg)

Acute toxicity - inhalation

Acute toxicity inhalation

(LC50 vapours mg/l)

114.0

**Species** Rat

ATE inhalation (vapours

mg/l)

114.0

# Dura II A/C Flush Solvent

Skin corrosion/irritation

Animal data Not irritating. Rabbit

Human skin model test Data lacking.

**Extreme pH** Not applicable. Not corrosive to skin.

Serious eye damage/irritation

Serious eye

Not irritating. Rabbit

damage/irritation

Respiratory sensitization
Respiratory sensitization

Data lacking.

Skin sensitization

**Skin sensitization** Not sensitizing. - Guinea pig: Not sensitizing.

Germ cell mutagenicity

**Genotoxicity - in vitro**This substance has no evidence of mutagenic properties.

**Genotoxicity - in vivo**This substance has no evidence of mutagenic properties.

Carcinogenicity

**Carcinogenicity** Does not contain any substances known to be carcinogenic.

IARC carcinogenicity Not listed.

NTP carcinogenicity Not listed.

OSHA Carcinogenicity Not listed.

Reproductive toxicity

Reproductive toxicity -

fertility

No evidence of reproductive toxicity in animal studies.

**Skin Contact** Skin irritation should not occur when used as recommended. May cause defatting

of the skin but is not an irritant.

**Eye contact** May cause eye irritation.

Acute and chronic health

hazards

There is no evidence that the product can cause cancer.

1,1,1,3,3-PENTAFLUOROBUTANE

Acute toxicity - oral

Acute toxicity oral (LD₅o

mg/kg)

2,000.0

Species Rat

**ATE oral (mg/kg)** 2,000.0

Acute toxicity - inhalation

Acute toxicity inhalation

(LC₅₀ vapours mg/l)

100,000.0

Species Rat

### **Dura II A/C Flush Solvent**

ATE inhalation (vapours

100,000.0

mg/l)

Specific target organ toxicity - single exposure

STOT - single exposure LOAEL 75100 ppm, Inhalation,

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEC 6 mg/l, Inhalation, Rat

Target organs Liver Kidneys

**DIMETHYL CARBONATE** 

Acute toxicity - inhalation

Acute toxicity inhalation 140.0

. . .

140.0

(LC<sub>50</sub> vapours mg/l)

ATE inhalation (vapours

mg/l)

12. Ecological Information

**Ecotoxicity** The product contains a substance which is toxic to aquatic organisms and which may cause

long-term adverse effects in the aquatic environment.

Ecological information on ingredients.

trans-DICHLOROETHYLENE

**Ecotoxicity** Low acute toxicity to aquatic organisms.

1,1,1,2,2,3,4,5,5,5-decafluoropentane

**Ecotoxicity** It is unlikely that the substance will dissolve in water in amounts big enough to have

a toxic effect on fish and daphnies.

**Toxicity** Very toxic to aquatic organisms.

Ecological information on ingredients.

trans-DICHLOROETHYLENE

Acute aquatic toxicity

Acute toxicity - fish LC₅o, 96 hours: 1350 mg/l, Fish

Acute toxicity - aquatic

invertebrates

EC<sub>50</sub>, 48 hours: 220 mg/l, Daphnia magna

1,1,1,2,2,3,4,5,5,5-decafluoropentane

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 13.9 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic

invertebrates

LC<sub>50</sub>, 48 hours: 11.7 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC<sub>50</sub>, 72 hours: >120 mg/l, Algae

### **Dura II A/C Flush Solvent**

### **DIMETHYL CARBONATE**

Acute aquatic toxicity

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 1000 mg/l, Leuciscus idus (Golden orfe)

Persistence and degradability

Persistence and degradability No data available.

Ecological information on ingredients.

# **DIMETHYL CARBONATE**

Persistence and degradability

The product is readily biodegradable.

Bioaccumulative potential

Bio-Accumulative Potential No data available on bioaccumulation.

Partition coefficient No information available.

Ecological information on ingredients.

#### trans-DICHLOROETHYLENE

Bio-Accumulative Potential Bioaccumulation is unlikely to be significant because of the low water-solubility of

this product.

1,1,1,2,2,3,4,5,5,5-decafluoropentane

Bio-Accumulative Potential Bioaccumulation is unlikely to be significant because of the low water-solubility of

this product.

Partition coefficient Pow: 2.7

**DIMETHYL CARBONATE** 

Partition coefficient log Pow: 0.23

Mobility in soil

**Mobility** No data available.

Ecological information on ingredients.

# trans-DICHLOROETHYLENE

**Mobility** The product has poor water-solubility.

Other adverse effects

(greenhouse effect).

13. Disposal considerations

Waste treatment methods

General information Refer to manufacturer/supplier for information on recovery/recycling. Waste should be treated

as controlled waste. Dispose of waste to licensed waste disposal site in accordance with the

requirements of the local Waste Disposal Authority.

# **Dura II A/C Flush Solvent**

**Disposal methods**Dispose of waste to licensed waste disposal site in accordance with the requirements of the

local Waste Disposal Authority. Reuse or recycle products wherever possible.

14. Transport information

General Not regulated. The product is not covered by international regulations on the transport of

dangerous goods (IMDG, IATA, DOT).

UN proper shipping name

Proper shipping name (TDG) Non Regulated Liquid Cleaning Compound NOS

Proper shipping name (IMDG) Non Regulated Liquid Cleaning Compound NOS

Proper shipping name (ICAO) Non Regulated Liquid Cleaning Compound NOS

Proper shipping name (DOT) Non Regulated Liquid Cleaning Compound NOS

Transport hazard class(es)

Not applicable. No information required.

Transport labels

No transport warning sign required.

Packing group

Not applicable. No information required.

**Environmental hazards** 

**Environmentally Hazardous Substance** 

No.

Special precautions for user

Not determined.

**Transport in bulk according to** Not applicable. No information required.

Annex II of MARPOL 73/78

and the IBC Code

# 15. Regulatory information

# **US Federal Regulations**

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

Not listed.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

trans-DICHLOROETHYLENE

Final CERCLA RQ: 1000(454) pounds (Kilograms)

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

Not listed.

SARA 313 Emission Reporting

Not listed.

**CAA Accidental Release Prevention** 

Not listed.

# **Dura II A/C Flush Solvent**

# SARA (311/312) Hazard Categories

Acute

# **OSHA Highly Hazardous Chemicals**

Not listed.

# **US State Regulations**

# California Proposition 65 Carcinogens and Reproductive Toxins

Not listed.

# California Air Toxics "Hot Spots" (A-I)

Not listed.

# California Air Toxics "Hot Spots" (A-II)

Not listed.

# California Directors List of Hazardous Substances

trans-DICHLOROETHYLENE

Present.

# Massachusetts "Right To Know" List

trans-DICHLOROETHYLENE

Present.

DIMETHYL CARBONATE

Present.

# Rhode Island "Right To Know" List

Not listed.

# Minnesota "Right To Know" List

Not listed.

# New Jersey "Right To Know" List

DIMETHYL CARBONATE

Present.

# Pennsylvania "Right To Know" List

trans-DICHLOROETHYLENE

Present.

DIMETHYL CARBONATE

Present.

### Inventories

# **Dura II A/C Flush Solvent**

### **US-TSCA**

Yes

1,1,1,2,2,3,4,5,5,5-DECAFLUOROPENTANE (CAS# 138495-42-8) is controlled by TSCA Section 5, Significant New Use Rule

(SNUR; 40 CFR 721.5645) The approved uses are: precision and general cleaning, carrier fluid, displacement drying, printed circuit board cleaning, particulate removal and film cleaning, process medium, heat transfer fluid (dielectric and non-dielectric), and test fluid. Processors and users of this substance must also comply with the applicable general SNUR requirements set forth in 40 CFR 721 subpart A, including export notification requirements if applicable (40 CFR 721.20), and the applicable record keeping requirements set forth at 40 CFR 721.125.

# 16. Other information

**Revision comments**NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date 3/27/2018

Revision 14

Supersedes date 11/7/2017

**SDS No.** BULK - 69991

SDS status Approved.

Hazard statements in full H225 Highly flammable liquid and vapor.

H332 Harmful if inhaled.

H412 Harmful to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.



Version 1.0 SDS Number: 400000005951 Revision Date: 04/27/2021

### **SECTION 1. IDENTIFICATION**

Product name : GOJO® NATURAL\* ORANGE™ Pumice Hand Cleaner

Manufacturer or supplier's details

Company name of supplier : GOJO Industries, Inc.

Address : One GOJO Plaza, Suite 500

Akron, Ohio 44311

Telephone : 1 (330) 255-6000

Emergency telephone : CHEMTREC 1-800-424-9300

number CHEMTREC +1-703-527-3887: Outside USA & CANADA

### Recommended use of the chemical and restrictions on use

Recommended use : Skin-care

Restrictions on use : This is a personal care or cosmetic product that is safe for

consumers and other users under normal and reasonably foreseeable use. Cosmetics and consumer products, specifically defined by regulations around the world, are exempt from the requirement of an SDS for the consumer. While this material is not considered hazardous, this SDS contains valuable information critical to the safe handling and proper use of the product for industrial workplace conditions as well as unusual and unintended exposures such as large spills. This SDS should be retained and available for employees and other users of this product. For specific

provided on the package or instruction sheet.

intended-use guidance, please refer to the information

# **SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification** 

Eye irritation : Category 2A

**GHS** label elements

Hazard pictograms

Signal word : Warning

Hazard statements : H319 Causes serious eye irritation.

Precautionary statements : **Prevention:** 

P280 Wear eye protection/ face protection.

Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/



SDS Number: 40000005951 Revision Date: 04/27/2021 Version 1.0

attention.

#### Other hazards

None known.

### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

### **Hazardous components**

Chemical name	CAS-No.	Concentration (%)
Laureth-7	9002-92-0	>= 1 - < 5
Glycerin	56-81-5	>= 1 - < 5
Limonene	5989-27-5	>= 0.1 - < 1

### **SECTION 4. FIRST AID MEASURES**

General advice : In the case of accident or if you feel unwell, seek medical

advice immediately.

When symptoms persist or in all cases of doubt seek medical

advice.

If inhaled : If inhaled, remove to fresh air.

If symptoms persist, call a physician.

In case of skin contact : Get medical attention if irritation develops and persists.

In case of contact, immediately flush eyes with plenty of water In case of eye contact

for at least 15 minutes.

If easy to do, remove contact lens, if worn.

Seek medical advice.

If swallowed, DO NOT induce vomiting. If swallowed

> Rinse mouth with water. Obtain medical attention. : Causes serious eye irritation.

Most important symptoms and effects, both acute and

Protection of first-aiders

delayed

: First Aid responders should pay attention to self-protection and use the recommended protective clothing

### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or

carbon dioxide.

Unsuitable extinguishing

media

: None known.

Hazardous combustion

products

: Carbon oxides

Specific extinguishing

methods

: Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment. Use water spray to cool unopened containers.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment

for firefighters

In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment.



Version 1.0 SDS Number: 400000005951 Revision Date: 04/27/2021

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.

Ensure adequate ventilation. Evacuate personnel to safe areas.

Material can create slippery conditions.

Environmental precautions : Discharge into the environment must be avoided.

Prevent further leakage or spillage if safe to do so.

Prevent spreading over a wide area (e.g. by containment or oil

barriers).

Retain and dispose of contaminated wash water.

Local authorities should be advised if significant spillages

cannot be contained.

Methods and materials for containment and cleaning up

: Keep in suitable, closed containers for disposal.

Clean contaminated floors and objects thoroughly while

observing environmental regulations.

### **SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : For personal protection see section 8.

Do not swallow.

Avoid contact with eyes.

Keep container closed when not in use.

Conditions for safe storage : Keep in properly labelled containers.

Keep container tightly closed in a dry and well-ventilated

place.

Store in accordance with the particular national regulations.

# **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

# Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Glycerin	56-81-5	TWA (mist, respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (mist, total dust)	15 mg/m3	OSHA Z-1
Limonene	5989-27-5	TWA	20 ppm	ACGIH

### Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally

required.

Eye protection : No special protective equipment required.

Wear face-shield and protective suit for abnormal processing

problems.

Skin and body protection

Protective measures : Choose body protection in relation to its type, to the

: No special protective equipment required.



Version 1.0 SDS Number: 400000005951 Revision Date: 04/27/2021

concentration and amount of dangerous substances, and to

the specific work-place.

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice.

Avoid contact with eyes.

# **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid

Colour : grey, opaque

Odour : citrus

Odour Threshold : No data available

pH : 4.0 - 6.0, (20 °C)

Melting point/freezing point : No data available

Initial boiling point and boiling

: > 90 °C

range

Flash point :  $> 100 \, ^{\circ}\text{C}$ 

Evaporation rate : No data available

Flammability (solid, gas) : Not applicable

Flammability (liquids) : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : No data available

Relative vapour density : Not applicable

Density : 1.03 g/cm3

Solubility(ies)

Water solubility : soluble

Partition coefficient: n-

octanol/water

: Not applicable

Auto-ignition temperature : No data available

Thermal decomposition : The substance or mixture is not classified self-reactive.

Viscosity

Viscosity, kinematic : 10000 - 45000 mm2/s (20 °C)

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

# **SECTION 10. STABILITY AND REACTIVITY**



Version 1.0 SDS Number: 400000005951 Revision Date: 04/27/2021

Reactivity : Not classified as a reactivity hazard. Chemical stability : Stable under normal conditions.

Possibility of hazardous

reactions

: Oxidizing agents

Incompatible materials

Hazardous decomposition

products

: No hazardous decomposition products are known.

: No dangerous reaction known under conditions of normal use.

# **SECTION 11. TOXICOLOGICAL INFORMATION**

### Information on likely routes of exposure

Inhalation Skin contact Eye contact

# **Acute toxicity**

Not classified based on available information.

# **Product:**

Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg

Method: Calculation method

### **Components:**

Laureth-7:

Acute oral toxicity : LD50 (Rat): > 500 - 2,000 mg/kg

Remarks: Based on data from similar materials

Acute inhalation toxicity : LC50 (Rat): > 1.6 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

Remarks: Based on data from similar materials

Glycerin:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Limonene:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

Assessment: The substance or mixture has no acute oral

toxicity

Remarks: Based on data from similar materials

#### Skin corrosion/irritation

Not classified based on available information.

# **Components:**

Laureth-7: Species: Rabbit

Result: No skin irritation

Remarks: Based on data from similar materials

# Glycerin:



Version 1.0 SDS Number: 400000005951 Revision Date: 04/27/2021

Result: No skin irritation

Limonene: Species: Rabbit Result: Skin irritation

# Serious eye damage/eye irritation

Causes serious eye irritation.

# **Components:**

Laureth-7: Species: Rabbit

Result: Irreversible effects on the eye

Remarks: Based on data from similar materials

Glycerin:

Result: No eye irritation

Limonene: Species: Rabbit Result: No eye irritation

### Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information. Respiratory sensitisation: Not classified based on available information.

**Product:** 

Result: Does not cause skin sensitisation.

# **Components:**

Laureth-7:

Test Type: Maximisation Test (GPMT)

Exposure routes: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406

Result: negative

Remarks: Based on data from similar materials

Limonene:

Test Type: Local lymph node assay (LLNA)

Exposure routes: Skin contact

Species: Mouse Result: positive

Assessment: Probability or evidence of skin sensitisation in humans

### Germ cell mutagenicity

Not classified based on available information.

#### Components:

Laureth-7:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Method: OECD Test Guideline 471

Result: negative



Version 1.0 SDS Number: 400000005951 Revision Date: 04/27/2021

Remarks: Based on data from similar materials

Glycerin:

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test

Method: OECD Test Guideline 476

Result: negative

Limonene:

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test

Result: negative

Genotoxicity in vivo : Test Type: Transgenic rodent somatic cell gene mutation

assay

Test species: Rat

Application Route: Ingestion

Result: negative

# Carcinogenicity

Not classified based on available information.

### **Components:**

Glycerin: Species: Rat

Application Route: Ingestion Exposure time: 2 Years

Result: negative

Limonene: Species: Mouse

Application Route: Ingestion Exposure time: 103 weeks

Result: negative

IARC No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

OSHA No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

# Reproductive toxicity

Not classified based on available information.

### Components:

Glycerin:

Effects on fertility : Test Type: Two-generation reproduction toxicity study

Species: Rat

Application Route: Ingestion

Result: negative



Version 1.0 SDS Number: 400000005951 Revision Date: 04/27/2021

Effects on foetal : Test Type: Embryo-foetal development

development Species: Rabbit

**Application Route: Ingestion** 

Result: negative

# STOT - single exposure

Not classified based on available information.

### STOT - repeated exposure

Not classified based on available information.

### Repeated dose toxicity

# **Components:**

# Glycerin:

Species: Rat

NOAEL: 167 mg/m3 LOAEL: 660 mg/m3

Application Route: inhalation (dust/mist/fume)

Exposure time: 13 w Symptoms: Local irritation

#### Limonene:

Species: Rat

NOAEL: 600 mg/kg

Application Route: Ingestion

Exposure time: 13 w

# **Aspiration toxicity**

Not classified based on available information.

### **Components:**

# Limonene:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

# **SECTION 12. ECOLOGICAL INFORMATION**

# **Ecotoxicity**

# **Components:**

#### Laureth-7:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 1 - 10 mg/l

Exposure time: 96 h

Remarks: Based on data from similar materials

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l

Exposure time: 48 h

Remarks: Based on data from similar materials

Toxicity to daphnia and other

aquatic invertebrates

: NOEC (Daphnia magna (Water flea)): > 0.1 - 1 mg/l

Exposure time: 21 d

(Chronic toxicity) Remarks: Based on data from similar materials



Version 1.0 SDS Number: 400000005951 Revision Date: 04/27/2021

Glycerin:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 54,000 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 1,955 mg/l

Exposure time: 48 h

Toxicity to bacteria : NOEC (Pseudomonas putida): > 10,000 mg/l

Exposure time: 16 h

Limonene:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 0.72 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 0.36 mg/l

Exposure time: 48 h

Toxicity to algae : ErC50 (Desmodesmus subspicatus (green algae)): 150 mg/l

Exposure time: 72 h

Test substance: Water Accommodated Fraction Remarks: Based on data from similar materials

M-Factor (Acute aquatic

toxicity)

: 1

### Persistence and degradability

### **Components:**

Laureth-7:

Biodegradability : Result: rapidly degradable

Remarks: Based on data from similar materials

Glycerin:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 94 % Exposure time: 1 d

Limonene:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 80 % Exposure time: 28 d

Remarks: Based on data from similar materials

# **Bioaccumulative potential**

### **Components:**

Laureth-7:

Bioaccumulation : Species: Fish

Bioconcentration factor (BCF): < 500

Remarks: Based on data from similar materials

Glycerin:

Partition coefficient: n-

: log Pow: -1.76

octanol/water Limonene:

Partition coefficient: n-

: log Pow: 4.38



Version 1.0 SDS Number: 400000005951 Revision Date: 04/27/2021

octanol/water

Mobility in soil

No data available

Other adverse effects

No data available

**Product:** 

Regulation 40 CFR Protection of Environment; Part 82 Protection of

Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks This product neither contains, nor was manufactured with a

Class I or Class II ODS as defined by the U.S. Clean Air Act

Section 602 (40 CFR 82, Subpt. A, App.A + B).

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods** 

Waste from residues : Dispose of in accordance with local regulations.

Contaminated packaging : Dispose of as unused product.

Empty containers should be taken to an approved waste

handling site for recycling or disposal.

### **SECTION 14. TRANSPORT INFORMATION**

# International Regulation

IATA-DGR

Not regulated as a dangerous good

**IMDG-Code** 

Not regulated as a dangerous good

**National Regulations** 

49 CFR

Not regulated as a dangerous good

### **SECTION 15. REGULATORY INFORMATION**

### **EPCRA - Emergency Planning and Community Right-to-Know Act**

SARA 311/312 Hazards : Acute Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).



Version 1.0 SDS Number: 400000005951 Revision Date: 04/27/2021

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

Glycerin 56-81-5 1 %

This product does not contain any VOC exemptions listed under the U.S. Clean Air Act Section 450.

California Prop 65 This product does not require a warning label under California

Proposition 65.

### The components of this product are reported in the following inventories:

TSCA : On TSCA Inventory

AICS : On the inventory, or in compliance with the inventory

DSL : On the inventory, or in compliance with the inventory

ENCS : On the inventory, or in compliance with the inventory

ISHL : On the inventory, or in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

NZIoC : On the inventory, or in compliance with the inventory

#### **Inventories**

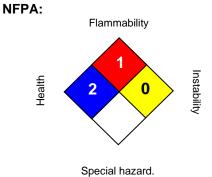
AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)



SDS Number: 400000005951 Version 1.0 Revision Date: 04/27/2021

### **SECTION 16. OTHER INFORMATION**

# **Further information**



### HMIS III:

HEALTH	2
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High 4 = Extreme, \* = Chronic

**Revision Date** : 04/27/2021

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

# **Material Safety Data Sheet**

Issuing Date 28-May-2010 Revision Date 28-May-2010 Revision Number 1

# 1. PRODUCT AND COMPANY IDENTIFICATION

**GREAT VALUE** 

Product Name GV LDU Formula 12092

Recommended Use Detergent.

Supplier Address Distributor

Sun Products Corporation 3540 W. 1987 S., Salt Lake City, Utah,

84104 US

Phone:800-776-6702 Contact:Michelle Maakestad Contact Phone:800-723-1164 Emergency Phone: 801-975-3194 Wal-Mart Stores Incorporated Bentonville, AR USA 72716

Company Emergency Phone Number 801-975-3194

# 2. HAZARDS IDENTIFICATION

CAUTION!

# **Emergency Overview**

May cause skin and eye irritation

Appearance No information available Physical State Liquid. Odor Pleasant

**Potential Health Effects** 

Principle Routes of Exposure Skin contact. Eye contact.

**Acute Toxicity** 

**Eyes** May cause irritation.

**Skin** Repeated exposure may cause skin dryness or cracking.

**Inhalation** Not an expected route of exposure.

**Ingestion** Not an expected route of exposure. Ingestion may cause gastrointestinal irritation, nausea,

vomiting and diarrhea.

**Chronic Effects** Ethanol has been shown to be a reproductive toxin only when consumed as an alcoholic

beverage.

Ethanol has been shown to be carcinogenic in long-term studies only when consumed as

alcoholic beverage.

**Aggravated Medical** 

Conditions

None known.

**Environmental Hazard** See Section 12 for additional Ecological Information.

Revision Date 28-May-2010

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Water	7732-18-5	30-60
Alcohols, C12-16, ethoxylated	68551-12-2	15-40
Urea	57-13-6	10-30
Sodium dodecylbenzenesulfonate	25155-30-0	10-30
Hexadecanoic acid, 2-sulfo-, 1-methyl ester, sodium	4016-24-4	5-10
salt		
Lauramine oxide	1643-20-5	3-7
SD Alcohol 40 (190 Proof)	64-17-5	3-7
Magnesium chloride	7786-30-3	3-7
Sodium hydroxide	1310-73-2	1 - 5
Sodium metabisulfite	7681-57-4	0.1 - 1
Triethylene glycol, monobutyl ether	143-22-6	< 0.1
Magnesium nitrate	10377-60-3	< 0.1

# 4. FIRST AID MEASURES

Eye Contact Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a

physician.

**Skin Contact** Wash skin with soap and water. In the case of skin irritation or allergic reactions see a

physician.

**Inhalation** Move to fresh air in case of accidental inhalation of vapors or decomposition products. If

symptoms persist, call a physician.

**Ingestion** Do NOT induce vomiting. Drink plenty of water. If symptoms persist, call a physician.

Notes to Physician Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

Flammable Properties Not flammable.

Flash Point Not applicable.

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Hazardous Combustion Products Carbon oxides.

**Explosion Data** 

Sensitivity to Mechanical Impact No.
Sensitivity to Static Discharge No.

# **Specific Hazards Arising from the Chemical**

In the event of fire and/or explosion do not breathe fumes. Thermal decomposition can lead to release of irritating gases and vapors.

# **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA Health Hazard 1 Flammability 0 Stability 0 Physical and Chemical Hazards N/A

Revision Date 28-May-2010

# 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions** Avoid contact with skin, eyes and clothing.

**Environmental Precautions** Refer to protective measures listed in Sections 7 and 8.

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Use personal protective equipment. Dam up. Soak up with inert absorbent material. Pick up

and transfer to properly labeled containers. Clean contaminated surface thoroughly.

# 7. HANDLING AND STORAGE

Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin,

eyes and clothing.

**Storage** Keep container tightly closed.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
SD Alcohol 40 (190 Proof)	STEL: 1000 ppm	TWA: 1000 ppm	IDLH: 3300 ppm 10% LEL
64-17-5		TWA: 1900 mg/m <sup>3</sup>	TWA: 1000 ppm
		(vacated) TWA: 1000 ppm	TWA: 1900 mg/m <sup>3</sup>
		(vacated) 1900 mg/m <sup>3</sup>	_
Sodium hydroxide	Ceiling: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	IDLH: 10 mg/m <sup>3</sup>
1310-73-2		(vacated) Ceiling: 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>
Sodium metabisulfite	TWA: 5 mg/m <sup>3</sup>	(vacated) TWA: 5 mg/m <sup>3</sup>	N/A
7681-57-4			

NIOSH IDLH: Immediately Dangerous to Life or Health

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992).

Engineering Measures Showers

Eyewash stations Ventilation systems

**Personal Protective Equipment** 

**Eye/Face Protection** Safety glasses with side-shields.

**Skin and Body Protection** Protective gloves.

**Respiratory Protection** No protective equipment is needed under normal use conditions.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

1027969 - GV LDU Formula 12092 Revision Date 28-May-2010

# 9. PHYSICAL AND CHEMICAL PROPERTIES

AppearanceNo information available.OdorPleasant.Odor ThresholdNo information available.Physical StateLiquid

рН

Flash Point Not applicable. Autoignition Temperature No information available

Decomposition Temperature No information available

Boiling Point/Range No information available

Melting Point/Range No information available

Flammability Limits in Air No information available Explosion Limits No information available

Water SolubilitySoluble in water.SolubilityNo information availableEvaporation RateNo information availableVapor PressureNo data available

Vapor Density No data available Partition Coefficient: n-

octanol/water

# 10. STABILITY AND REACTIVITY

VOC Content (%)

16.5

**Stability** Stable under recommended storage conditions.

Incompatible Products Strong oxidizing agents.

Conditions to Avoid None known.

**Hazardous Decomposition** 

**Products** 

Carbon oxides.

**Hazardous Polymerization** Hazardous polymerization does not occur.

# 11. TOXICOLOGICAL INFORMATION

### **Acute Toxicity**

#### **Product Information**

**Irritation** May cause skin and eye irritation.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium dodecylbenzenesulfonate	438 mg/kg (Rat)	-	-
SD Alcohol 40 (190 Proof)	7060 mg/kg (Rat)	-	-
Magnesium chloride	2800 mg/kg (Rat)	-	-
Sodium hydroxide	-	1350 mg/kg (Rabbit)	-
Sodium metabisulfite	1131 mg/kg (Rat)	-	-

# **Chronic Toxicity**

**Chronic Toxicity** Ethanol has been shown to be a reproductive toxin only when consumed as an alcoholic

beverage.

Ethanol has been shown to be carcinogenic in long-term studies only when consumed as

alcoholic beverage.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
SD Alcohol 40 (190 Proof)	A3	Group 1		
Sodium metabisulfite		Group 3		

**1027969 - GV LDU Formula 12092** Revision Date 28-May-2010

# Legend:

ACGIH: (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC: (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

**Target Organ Effects** 

Blood. Central nervous system (CNS). Eyes. Liver. Reproductive system. Respiratory system.

# 12. ECOLOGICAL INFORMATION

# **Ecotoxicity**

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Urea		LC50: 16200-18300 mg/L Poecilia reticulata 96 h	EC50 = 23914 mg/L 5 min	EC50: >10000 mg/L Daphnia magna Straus 24 h EC50: 3910 mg/L Daphnia magna 48 h Static
Sodium		LC50: 10.8 mg/L		magna 40 ii Statio
dodecylbenzenesulfonate		Oncorhynchus mykiss 96 h		
dedecylberizeriesuneriate		static		
SD Alcohol 40 (190 Proof)		LC50: 12.0-16.0 ml/L	EC50 = 34634 mg/L 30 min	LC50: 9268 - 14221 mg/L
62 / 400Her 10 (100 F 100H)		Oncorhynchus mykiss 96 h	EC50 = 35470 mg/L 5 min	Daphnia magna 48 h
		static		EC50: 10800 mg/L Daphnia
		LC50: >100 mg/L Pimephales		magna 24 h
		promelas 96 h static		EC50: 2 mg/L Daphnia
		LC50: 13400-15100 mg/L		magna 48 h Static
		Pimephales promelas 96 h		
		flow-through		
Magnesium chloride	EC50: 2200 mg/L	LC50: 4210 mg/L Gambusia	EC50 = 26140 mg/L 1 h	EC50: 1400 mg/L Daphnia
	Desmodesmus subspicatus	affinis 96 h static	EC50 = 36300 mg/L 30 min	magna 24 h
	72 h	LC50: 1970-3880 mg/L	EC50 = 77200 mg/L 24 h	EC50: 140 mg/L Daphnia
		Pimephales promelas 96 h		magna 48 h Static
		static		
Sodium hydroxide		LC50: 45.4 mg/L		
		Oncorhynchus mykiss 96 h		
		static		
Sodium metabisulfite	EC50: 48 mg/L	LC50: 32 mg/L Lepomis	EC50 = 56 mg/L 17 h	EC50: 89 mg/L Daphnia
	Desmodesmus subspicatus	macrochirus 96 h static		magna Straus 24 h
	72 h			
	EC50: 40 mg/L			
	Desmodesmus subspicatus			
Triathadana ahaadana 1	96 h	1.050: 0000 4000 :- "		F050 > 500 # D-   -
Triethylene glycol, monobutyl	EC50: >500 mg/L	LC50: 2200-4600 mg/L		EC50: >500 mg/L Daphnia
ether	Desmodesmus subspicatus	Leuciscus idus 96 h static		magna 48 h
	72 h	LC50: 2400 mg/L Pimephales promelas 96 h static		
		promeias 90 ii static		

Chemical Name	Log Pow
Urea	-1.59
SD Alcohol 40 (190 Proof)	-0.32
Sodium metabisulfite	-3.7
Triethylene glycol, monobutyl ether	0.51

Revision Date 28-May-2010

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR

261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local

regulations for additional requirements.

**Contaminated Packaging** Dispose of in accordance with local regulations.

California Hazardous Waste Codes 561

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste
SD Alcohol 40 (190 Proof)	Toxic
	Ignitable
Sodium hydroxide	Toxic
	Corrosive
Magnesium nitrate	Ignitable
-	Reactive

# 14. TRANSPORT INFORMATION

**DOT** Not regulated

TDG Not regulated

MEX Not regulated

ICAO Not regulated

IATA Not regulated

IMDG/IMO Not regulated

RID Not regulated

ADR Not regulated

ADN Not regulated

Revision Date 28-May-2010

# 15. REGULATORY INFORMATION

#### **International Inventories**

**TSCA** Complies DSL Does not Comply **EINECS/ELINCS** Does not Comply **ENCS** Does not Comply **IECSC** Does not Comply **KECL** Does not Comply **PICCS** Does not Comply **AICS** Does not Comply

# **U.S. Federal Regulations**

### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Magnesium nitrate	10377-60-3	< 0.1	1.0
Triethylene glycol, monobutyl ether	143-22-6	< 0.1	1.0

#### SARA 311/312 Hazard Categories

Acute Health Hazard Yes
Chronic Health Hazard Yes
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard No

### **Clean Water Act**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium	1000 lb			X
dodecylbenzenesulfonate				
Sodium hydroxide	1000 lb			X

### Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following substances which are listed hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act:

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Triethylene glycol, monobutyl ether	143-22-6	< 0.1	Present (includes mono- and di- ethers of ethylene glycol, diethylene glycol, and triethylene glycol, except Ethylene glycol monobutyl ether [EGBE]. See 40 CFR 63.62 for Redefinition of glycol ethers listed as hazardous air		Берівіої	Depletors
			pollutants and 40 CFR 63.63 fo			

**1027969 - GV LDU Formula 12092** Revision Date 28-May-2010

#### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Sodium dodecylbenzenesulfonate	1000 lb	
Sodium hydroxide	1000 lb	

#### **U.S. State Regulations**

#### **California Proposition 65**

This product contains the following Proposition 65 chemicals:

Chemical Name	CAS-No	California Prop. 65
SD Alcohol 40 (190 Proof)	64-17-5	Developmental

### U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Sodium hydroxide	Χ				
Magnesium nitrate	Χ	X	X		Х
SD Alcohol 40 (190 Proof)	Χ				Х
Sodium metabisulfite	Χ	Χ	X		Χ
Sodium	X	Χ	X		
dodecylbenzenesulfonate					
Triethylene glycol, monobutyl		Χ	X	X	
ether					

### **International Regulations**

Mexico - Grade

Slight risk, Grade 1

Chemical Name	Carcinogen Status	Exposure Limits
Sodium hydroxide		Mexico: Ceilina= 2 ma/m <sup>3</sup>

#### Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

#### WHMIS Hazard Class

D2B Toxic materials



# **16. OTHER INFORMATION**

Issuing Date 28-May-2010

Revision Date 28-May-2010

1027969 - GV LDU Formula 12092 Revision Date 28-May-2010

**Revision Note** 

No information available

General Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of Safety Data Sheet** 



**Material Name: Gasoline All Grades** 

SDS No. 9950

US GHS

**Synonyms:** Hess Conventional (Oxygenated and Non-oxygenated) Gasoline; Reformulated Gasoline (RFG); Reformulated Gasoline Blendstock for Oxygenate Blending (RBOB); Unleaded Motor or Automotive Gasoline

# \* \* \* Section 1 - Product and Company Identification \* \* \*

#### **Manufacturer Information**

Hess Corporation 1 Hess Plaza Woodbridge, NJ 07095-0961 Phone: 732-750-6000 Corporate EHS Emergency # 800-424-9300 CHEMTREC

www.hess.com (Environment, Health, Safety Internet Website)

# \* \* \* Section 2 - Hazards Identification \* \* '

#### **GHS Classification:**

Flammable Liquid - Category 2

Skin Corrosion/Irritation - Category 2

Germ Cell Mutagenicity - Category 1B

Carcinogenicity - Category 1B

Toxic to Reproduction - Category 1A

Specific Target Organ Toxicity (Single Exposure) - Category 3 (respiratory irritation, narcosis)

Specific Target Organ Toxicity (Repeat Exposure) - Category 1 (liver, kidneys, bladder, blood, bone marrow, nervous system)

Aspiration Hazard - Category 1

Hazardous to the Aquatic Environment – Acute Hazard - Category 3

# **GHS LABEL ELEMENTS**

### Symbol(s)



### Signal Word

**DANGER** 

#### **Hazard Statements**

Highly flammable liquid and vapour.

Causes skin irritation.

May cause genetic defects.

May cause cancer.

May damage fertility or the unborn child.

May cause respiratory irritation.

May cause drowsiness or dizziness.

Causes damage to organs (liver, kidneys, bladder, blood, bone marrow, nervous system) through prolonged or repeated exposure.

May be fatal if swallowed and enters airways.

Harmful to aquatic life.

Material Name: Gasoline All Grades SDS No. 9950

# **Precautionary Statements**

#### **Prevention**

Keep away from heat/sparks/open flames/hot surfaces. No smoking

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Wear protective gloves/protective clothing/eye protection/face protection.

Wash hands and forearms thoroughly after handling.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe mist/vapours/spray.

Use only outdoors or in well-ventilated area.

Do not eat, drink or smoke when using this product.

Avoid release to the environment.

#### Response

In case of fire: Use water spray, fog, dry chemical fire extinguishers or hand held fire extinguisher.

IF ON SKIN (or hair): Wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing and wash before reuse. If skin irritation occurs, get medical advice/attention.

IF exposed or concerned: Get medical advice/attention.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.

Get medical advice/attention if you feel unwell.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do not induce vomiting.

#### Storage

Store in a well-ventilated place.

Keep cool. Keep container tightly closed.

Store locked up.

#### **Disposal**

Dispose of contents/container in accordance with local/regional/national/international regulations.

# \* \* \* Section 3 - Composition / Information on Ingredients \* \* \*

CAS#	Component	Percent
86290-81-5	Gasoline, motor fuel	100
108-88-3	Toluene	1-25
106-97-8	Butane	<10
1330-20-7	Xylenes (o-, m-, p- isomers)	1-15
95-63-6	Benzene, 1,2,4-trimethyl-	<6
64-17-5	Ethyl alcohol	0-10
100-41-4	Ethylbenzene	<3
71-43-2	Benzene	0.1-4.9

#### Material Name: Gasoline All Grades SDS No. 9950

110-54-3 Hexane 0.5-4

A complex blend of petroleum-derived normal and branched-chain alkane, cycloalkane, alkene, and aromatic hydrocarbons. May contain antioxidant and multifunctional additives. Non-oxygenated Conventional Gasoline and RBOB do not have oxygenates (Ethanol). Oxygenated Conventional and Reformulated Gasoline will have oxygenates for octane enhancement or as legally required.

# \* \* \* Section 4 - First Aid Measures \* \* \*

# First Aid: Eyes

In case of contact with eyes, immediately flush with clean, low-pressure water for at least 15 min. Hold eyelids open to ensure adequate flushing. Seek medical attention.

#### First Aid: Skin

Remove contaminated clothing. Wash contaminated areas thoroughly with soap and water or with waterless hand cleanser. Obtain medical attention if irritation or redness develops.

### First Aid: Ingestion

DO NOT INDUCE VOMITING. Do not give liquids. Obtain immediate medical attention. If spontaneous vomiting occurs, lean victim forward to reduce the risk of aspiration. Monitor for breathing difficulties. Small amounts of material which enter the mouth should be rinsed out until the taste is dissipated.

#### First Aid: Inhalation

Remove person to fresh air. If person is not breathing, provide artificial respiration. If necessary, provide additional oxygen once breathing is restored if trained to do so. Seek medical attention immediately.

# \* \* \* Section 5 - Fire Fighting Measures \* \* \*

#### **General Fire Hazards**

See Section 9 for Flammability Properties.

Vapors may be ignited rapidly when exposed to heat, spark, open flame or other source of ignition. Flowing product may be ignited by self-generated static electricity. When mixed with air and exposed to an ignition source, flammable vapors can burn in the open or explode in confined spaces. Being heavier than air, vapors may travel long distances to an ignition source and flash back. Runoff to sewer may cause fire or explosion hazard.

#### **Hazardous Combustion Products**

Carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke). Contact with nitric and sulfuric acids will form nitrocresols that can decompose violently.

#### **Extinguishing Media**

SMALL FIRES: Any extinguisher suitable for Class B fires, dry chemical, CO2, water spray, fire fighting foam, or gaseous extinguishing agent.

LARGE FIRES: Water spray, fog or fire fighting foam. Water may be ineffective for fighting the fire, but may be used to cool fire-exposed containers.

Firefighting foam suitable for polar solvents is recommended for fuel with greater than 10% oxygenate concentration.

# **Unsuitable Extinguishing Media**

None

Page 3 of 16	Revision Date 8/30/12

Material Name: Gasoline All Grades SDS No. 9950

### Fire Fighting Equipment/Instructions

Small fires in the incipient (beginning) stage may typically be extinguished using handheld portable fire extinguishers and other fire fighting equipment. Firefighting activities that may result in potential exposure to high heat, smoke or toxic by-products of combustion should require NIOSH/MSHA- approved pressure-demand selfcontained breathing apparatus with full facepiece and full protective clothing. Isolate area around container involved in fire. Cool tanks, shells, and containers exposed to fire and excessive heat with water. For massive fires the use of unmanned hose holders or monitor nozzles may be advantageous to further minimize personnel exposure. Major fires may require withdrawal, allowing the tank to burn. Large storage tank fires typically require specially trained personnel and equipment to extinguish the fire, often including the need for properly applied fire fighting foam.

# **Section 6 - Accidental Release Measures**

### **Recovery and Neutralization**

Carefully contain and stop the source of the spill, if safe to do so.

### Materials and Methods for Clean-Up

Take up with sand or other oil absorbing materials. Carefully shovel, scoop or sweep up into a waste container for reclamation or disposal. Caution, flammable vapors may accumulate in closed containers.

### **Emergency Measures**

Evacuate nonessential personnel and remove or secure all ignition sources. Consider wind direction; stay upwind and uphill, if possible. Evaluate the direction of product travel, diking, sewers, etc. to confirm spill areas. Spills may infiltrate subsurface soil and groundwater; professional assistance may be necessary to determine the extent of subsurface impact.

# **Personal Precautions and Protective Equipment**

Response and clean-up crews must be properly trained and must utilize proper protective equipment (see Section 8).

#### **Environmental Precautions**

Protect bodies of water by diking, absorbents, or absorbent boom, if possible. Do not flush down sewer or drainage systems, unless system is designed and permitted to handle such material. The use of fire fighting foam may be useful in certain situations to reduce vapors. The proper use of water spray may effectively disperse product vapors or the liquid itself, preventing contact with ignition sources or areas/equipment that require protection.

### **Prevention of Secondary Hazards**

None

# Section 7 - Handling and Storage \* \* \*

# **Handling Procedures**

USE ONLY AS A MOTOR FUEL. DO NOT SIPHON BY MOUTH

Handle as a flammable liquid. Keep away from heat, sparks, and open flame! Electrical equipment should be approved for classified area. Bond and ground containers during product transfer to reduce the possibility of static-initiated fire or explosion.

#### Material Name: Gasoline All Grades

SDS No. 9950

Special slow load procedures for "switch loading" must be followed to avoid the static ignition hazard that can exist when higher flash point material (such as fuel oil) is loaded into tanks previously containing low flash point products (such as this product) - see API Publication 2003, "Protection Against Ignitions Arising Out Of Static, Lightning and Stray Currents."

### Storage Procedures

Keep away from flame, sparks, excessive temperatures and open flame. Use approved vented containers. Keep containers closed and clearly labeled. Empty product containers or vessels may contain explosive vapors. Do not pressurize, cut, heat, weld or expose such containers to sources of ignition.

Store in a well-ventilated area. This storage area should comply with NFPA 30 "Flammable and Combustible Liquid Code". Avoid storage near incompatible materials. The cleaning of tanks previously containing this product should follow API Recommended Practice (RP) 2013 "Cleaning Mobile Tanks In Flammable and Combustible Liquid Service" and API RP 2015 "Cleaning Petroleum Storage Tanks".

# Incompatibilities

Keep away from strong oxidizers.

# **Section 8 - Exposure Controls / Personal Protection**

#### **Component Exposure Limits**

#### Gasoline, motor fuel (86290-81-5)

ACGIH: 300 ppm TWA 500 ppm STEL

#### Toluene (108-88-3)

ACGIH: 20 ppm TWA

OSHA: 200 ppm TWA; 375 mg/m3 TWA

150 ppm STEL; 560 mg/m3 STEL

NIOSH: 100 ppm TWA; 375 mg/m3 TWA

150 ppm STEL; 560 mg/m3 STEL

#### Butane (106-97-8)

ACGIH: 1000 ppm TWA (listed under Aliphatic hydrocarbon gases: Alkane C1-4)

OSHA: 800 ppm TWA; 1900 mg/m3 TWA NIOSH: 800 ppm TWA; 1900 mg/m3 TWA

#### Xylenes (o-, m-, p- isomers) (1330-20-7)

ACGIH: 100 ppm TWA

150 ppm STEL

OSHA: 100 ppm TWA; 435 mg/m3 TWA

150 ppm STEL; 655 mg/m3 STEL

#### Benzene, 1,2,4-trimethyl- (95-63-6)

NIOSH: 25 ppm TWA; 125 mg/m3 TWA

#### Ethyl alcohol (64-17-5)

ACGIH: 1000 ppm STEL

OSHA: 1000 ppm TWA; 1900 mg/m3 TWA NIOSH: 1000 ppm TWA; 1900 mg/m3 TWA

Material Name: Gasoline All Grades SDS No. 9950

#### Ethylbenzene (100-41-4)

ACGIH: 20 ppm TWA

OSHA: 100 ppm TWA; 435 mg/m3 TWA

125 ppm STEL; 545 mg/m3 STEL

NIOSH: 100 ppm TWA; 435 mg/m3 TWA

125 ppm STEL; 545 mg/m3 STEL

#### Benzene (71-43-2)

ACGIH: 0.5 ppm TWA

2.5 ppm STEL

Skin - potential significant contribution to overall exposure by the cutaneous route

OSHA: 5 ppm STEL (Cancer hazard, Flammable, See 29 CFR 1910.1028, 15 min); 0.5 ppm Action

Level; 1 ppm TWA

NIOSH: 0.1 ppm TWA

1 ppm STEL

#### Hexane (110-54-3)

ACGIH: 50 ppm TWA

Skin - potential significant contribution to overall exposure by the cutaneous route

OSHA: 500 ppm TWA; 1800 mg/m3 TWA NIOSH: 50 ppm TWA; 180 mg/m3 TWA

#### **Engineering Measures**

Use adequate ventilation to keep vapor concentrations of this product below occupational exposure and flammability limits, particularly in confined spaces.

#### Personal Protective Equipment: Respiratory

A NIOSH/MSHA-approved air-purifying respirator with organic vapor cartridges or canister may be permissible under certain circumstances where airborne concentrations are or may be expected to exceed exposure limits or for odor or irritation. Protection provided by air-purifying respirators is limited.

Use a positive pressure, air-supplied respirator if there is a potential for uncontrolled release, exposure levels are not known, in oxygen-deficient atmospheres, or any other circumstance where an air-purifying respirator may not provide adequate protection.

#### **Personal Protective Equipment: Hands**

Gloves constructed of nitrile, neoprene, or PVC are recommended.

#### PERSONAL PROTECTIVE EQUIPMENT

### **Personal Protective Equipment: Eyes**

Safety glasses or goggles are recommended where there is a possibility of splashing or spraying.

#### Personal Protective Equipment: Skin and Body

Chemical protective clothing such as of E.I. DuPont TyChem®, Saranex® or equivalent recommended based on degree of exposure. Note: The resistance of specific material may vary from product to product as well as with degree of exposure. Consult manufacturer specifications for further information.

Material Name: Gasoline All Grades SDS No. 9950

# \* \* \* Section 9 - Physical & Chemical Properties \* \* \*

Appearance: Translucent, straw-colored or Odor: Strong, characteristic aromatic

light yellow hydrocarbon odor. Sweet-ether

like

Physical State: Liquid pH: ND

Vapor Pressure:6.4 - 15 RVP @ 100 °F (38 °C)Vapor Density:AP 3-4

(275-475 mm Hg @ 68 °F (20

°C)

Boiling Point:85-437 °F (39-200 °C)Melting Point:NDSolubility (H2O):Negligible to SlightSpecific Gravity:0.70-0.78

Evaporation Rate:10-11VOC:NDPercent Volatile:100%Octanol/H2O Coeff.:NDFlash Point:-45 °F (-43 °C)Flash Point Method:PMCCUpper Flammability Limit7.6%Lower Flammability Limit1.4%

(UFL): (LFL):

Burning Rate: ND Auto Ignition: >530°F (>280°C)

# \* \* \* Section 10 - Chemical Stability & Reactivity Information \* \* \*

# **Chemical Stability**

This is a stable material.

#### **Hazardous Reaction Potential**

Will not occur.

#### **Conditions to Avoid**

Avoid high temperatures, open flames, sparks, welding, smoking and other ignition sources.

#### **Incompatible Products**

Keep away from strong oxidizers.

#### **Hazardous Decomposition Products**

Carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke). Contact with nitric and sulfuric acids will form nitrocresols that can decompose violently.

# \* \* \* Section 11 - Toxicological Information \* \* \*

# **Acute Toxicity**

#### A: General Product Information

Harmful if swallowed.

#### B: Component Analysis - LD50/LC50

#### **Gasoline, motor fuel (86290-81-5)**

Inhalation LC50 Rat >5.2 mg/L 4 h; Oral LD50 Rat 14000 mg/kg; Dermal LD50 Rabbit >2000 mg/kg

#### Toluene (108-88-3)

Inhalation LC50 Rat 12.5 mg/L 4 h; Inhalation LC50 Rat >26700 ppm 1 h; Oral LD50 Rat 636 mg/kg; Dermal LD50 Rabbit 8390 mg/kg; Dermal LD50 Rat 12124 mg/kg

#### Butane (106-97-8)

Inhalation LC50 Rat 658 mg/L 4 h

Material Name: Gasoline All Grades SDS No. 9950

### Xylenes (o-, m-, p- isomers) (1330-20-7)

Inhalation LC50 Rat 5000 ppm 4 h; Inhalation LC50 Rat 47635 mg/L 4 h; Oral LD50 Rat 4300 mg/kg; Dermal LD50 Rabbit >1700 mg/kg

#### Benzene, 1,2,4-trimethyl- (95-63-6)

Inhalation LC50 Rat 18 g/m3 4 h; Oral LD50 Rat 3400 mg/kg; Dermal LD50 Rabbit >3160 mg/kg

#### **Ethyl alcohol (64-17-5)**

Oral LD50 Rat 7060 mg/kg; Inhalation LC50 Rat 124.7 mg/L 4 h

#### Ethylbenzene (100-41-4)

Inhalation LC50 Rat 17.2 mg/L 4 h; Oral LD50 Rat 3500 mg/kg; Dermal LD50 Rabbit 15354 mg/kg

#### Benzene (71-43-2)

Inhalation LC50 Rat 13050-14380 ppm 4 h; Oral LD50 Rat 1800 mg/kg

#### Hexane (110-54-3)

Inhalation LC50 Rat 48000 ppm 4 h; Oral LD50 Rat 25 g/kg; Dermal LD50 Rabbit 3000 mg/kg

### Potential Health Effects: Skin Corrosion Property/Stimulativeness

Practically non-toxic if absorbed following acute (single) exposure. May cause skin irritation with prolonged or repeated contact. Liquid may be absorbed through the skin in toxic amounts if large areas of skin are repeatedly exposed.

### Potential Health Effects: Eye Critical Damage/ Stimulativeness

Moderate irritant. Contact with liquid or vapor may cause irritation.

#### **Potential Health Effects: Ingestion**

Ingestion may cause gastrointestinal disturbances, including irritation, nausea, vomiting and diarrhea, and central nervous system (brain) effects similar to alcohol intoxication. In severe cases, tremors, convulsions, loss of consciousness, coma, respiratory arrest, and death may occur.

#### Potential Health Effects: Inhalation

Excessive exposure may cause irritations to the nose, throat, lungs and respiratory tract. Central nervous system (brain) effects may include headache, dizziness, loss of balance and coordination, unconsciousness, coma, respiratory failure, and death.

WARNING: the burning of any hydrocarbon as a fuel in an area without adequate ventilation may result in hazardous levels of combustion products, including carbon monoxide, and inadequate oxygen levels, which may cause unconsciousness, suffocation, and death.

### **Respiratory Organs Sensitization/Skin Sensitization**

This product is not reported to have any skin sensitization effects.

#### **Generative Cell Mutagenicity**

This product may cause genetic defects.

### Carcinogenicity

#### A: General Product Information

May cause cancer.

Page 8 of 16	Revision Date 8/30/12

#### **Material Name: Gasoline All Grades**

SDS No. 9950

IARC has determined that gasoline and gasoline exhaust are possibly carcinogenic in humans. Inhalation exposure to completely vaporized unleaded gasoline caused kidney cancers in male rats and liver tumors in female mice. The U.S. EPA has determined that the male kidney tumors are species-specific and are irrelevant for human health risk assessment. The significance of the tumors seen in female mice is not known. Exposure to light hydrocarbons in the same boiling range as this product has been associated in animal studies with effects to the central and peripheral nervous systems, liver, and kidneys. The significance of these animal models to predict similar human response to gasoline is uncertain.

This product contains benzene. Human health studies indicate that prolonged and/or repeated overexposure to benzene may cause damage to the blood-forming system (particularly bone marrow), and serious blood disorders such as aplastic anemia and leukemia. Benzene is listed as a human carcinogen by the NTP, IARC, OSHA and ACGIH.

# **B: Component Carcinogenicity**

#### Gasoline, motor fuel (86290-81-5)

ACGIH: A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

#### Toluene (108-88-3)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

IARC: Monograph 71 [1999]; Monograph 47 [1989] (Group 3 (not classifiable))

#### Xylenes (o-, m-, p- isomers) (1330-20-7)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

IARC: Monograph 71 [1999]; Monograph 47 [1989] (Group 3 (not classifiable))

### Ethyl alcohol (64-17-5)

ACGIH: A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

IARC: Monograph 100E [in preparation] (in alcoholic beverages); Monograph 96 [2010] (in alcoholic

beverages) (Group 1 (carcinogenic to humans))

#### Ethylbenzene (100-41-4)

ACGIH: A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans IARC: Monograph 77 [2000] (Group 2B (possibly carcinogenic to humans))

#### Benzene (71-43-2)

ACGIH: A1 - Confirmed Human Carcinogen

OSHA: 5 ppm STEL (Cancer hazard, Flammable, See 29 CFR 1910.1028, 15 min); 0.5 ppm Action

Level; 1 ppm TWA

NIOSH: potential occupational carcinogen

NTP: Known Human Carcinogen (Select Carcinogen)

IARC: Monograph 100F [in preparation]; Supplement 7 [1987]; Monograph 29 [1982] (Group 1

(carcinogenic to humans))

#### Reproductive Toxicity

This product is suspected of damaging fertility or the unborn child.

# **Specified Target Organ General Toxicity: Single Exposure**

This product may cause drowsiness or dizziness.

Material Name: Gasoline All Grades SDS No. 9950

### Specified Target Organ General Toxicity: Repeated Exposure

This product causes damage to organs through prolonged or repeated exposure.

# **Aspiration Respiratory Organs Hazard**

The major health threat of ingestion occurs from the danger of aspiration (breathing) of liquid drops into the lungs, particularly from vomiting. Aspiration may result in chemical pneumonia (fluid in the lungs), severe lung damage, respiratory failure and even death.

# Section 12 - Ecological Information \* \* \*

### **Ecotoxicity**

#### **A: General Product Information**

Very toxic to aquatic life with long lasting effects. Keep out of sewers, drainage areas and waterways. Report spills and releases, as applicable, under Federal and State regulations.

### **B: Component Analysis - Ecotoxicity - Aquatic Toxicity**

Gasoline, motor fuel (86290-81-5)

Test & Species		Conditions
96 Hr LC50 Alburnus alburnus	119 mg/L [static]	
96 Hr LC50 Cyprinodon variegatus	82 mg/L [static]	
72 Hr EC50 Pseudokirchneriella	56 mg/L	
subcapitata		
24 Hr EC50 Daphnia magna	170 mg/L	

### Toluene (108-88-3)

Test & Species		Conditions
96 Hr LC50 Pimephales promelas	15.22-19.05 mg/L [flow-through]	1 day old
96 Hr LC50 Pimephales promelas	12.6 mg/L [static]	
96 Hr LC50 Oncorhynchus mykiss	5.89-7.81 mg/L [flow-through]	
96 Hr LC50 Oncorhynchus mykiss	14.1-17.16 mg/L [static]	
96 Hr LC50 Oncorhynchus mykiss	5.8 mg/L [semi- static]	
96 Hr LC50 Lepomis macrochirus	11.0-15.0 mg/L [static]	
96 Hr LC50 Oryzias latipes	54 mg/L [static]	
96 Hr LC50 Poecilia reticulata	28.2 mg/L [semi- static]	
96 Hr LC50 Poecilia reticulata	50.87-70.34 mg/L [static]	
96 Hr EC50 Pseudokirchneriella subcapitata	>433 mg/L	
72 Hr EC50 Pseudokirchneriella subcapitata	12.5 mg/L [static]	
48 Hr EC50 Daphnia magna	5.46 - 9.83 mg/L [Static]	
48 Hr EC50 Daphnia magna	11.5 mg/L	

#### Xylenes (o-, m-, p- isomers) (1330-20-7)

Test & Species		Conditions
96 Hr LC50 Pimephales promelas	13.4 mg/L [flow- through]	

**Conditions** 

### **Material Name: Gasoline All Grades**

**SDS No. 9950** 

96 Hr LC50 Oncorhynchus mykiss	2.661-4.093 mg/L [static]
96 Hr LC50 Oncorhynchus mykiss	13.5-17.3 mg/L
96 Hr LC50 Lepomis macrochirus	13.1-16.5 mg/L [flow-through]
96 Hr LC50 Lepomis macrochirus	19 mg/L
96 Hr LC50 Lepomis macrochirus	7.711-9.591 mg/L [static]
96 Hr LC50 Pimephales promelas	23.53-29.97 mg/L [static]
96 Hr LC50 Cyprinus carpio	780 mg/L [semistatic]
96 Hr LC50 Cyprinus carpio	>780 mg/L
96 Hr LC50 Poecilia reticulata	30.26-40.75 mg/L [static]
48 Hr EC50 water flea	3.82 mg/L
48 Hr LC50 Gammarus lacustris	0.6 mg/L

#### Benzene, 1,2,4-trimethyl- (95-63-6)

Test & Species		
1 621 & ODECIES		

96 Hr LC50 Pimephales promelas	7.19-8.28 mg/L
	[flow-through]
48 Hr EC50 Daphnia magna	6.14 mg/L

# Ethyl alcohol (64-17-5)

# **Test & Species**96 Hr LC50 Oncorhynchus mykiss 12.0 - 16.0 mL/L

	[static]
96 Hr LC50 Pimephales promelas	>100 mg/L [static]
96 Hr LC50 Pimephales promelas	13400 - 15100 mg/L
	[flow-through]
48 Hr LC50 Daphnia magna	9268 - 14221 mg/L
24 Hr EC50 Daphnia magna	10800 mg/L
48 Hr EC50 Daphnia magna	2 mg/L [Static]

# Ethylbenzene (100-41-4)

### Test & Species Conditions

i est a species		Condition
96 Hr LC50 Oncorhynchus mykiss	11.0-18.0 mg/L [static]	
96 Hr LC50 Oncorhynchus mykiss	4.2 mg/L [semi- static]	
96 Hr LC50 Pimephales promelas	7.55-11 mg/L [flow-through]	
96 Hr LC50 Lepomis macrochirus	32 mg/L [static]	
96 Hr LC50 Pimephales promelas	9.1-15.6 mg/L [static]	
96 Hr LC50 Poecilia reticulata	9.6 mg/L [static]	
72 Hr EC50 Pseudokirchneriella subcapitata	4.6 mg/L	
96 Hr EC50 Pseudokirchneriella subcapitata	>438 mg/L	
72 Hr EC50 Pseudokirchneriella subcapitata	2.6 - 11.3 mg/L [static]	

Page 11 of 16

Revision Date 8/30/12

#### Material Name: Gasoline All Grades

**SDS No. 9950** 

96 Hr EC50 Pseudokirchneriella 1.7 - 7.6 mg/L subcapitata [static] 48 Hr EC50 Daphnia magna 1.8 - 2.4 mg/L

Benzene (71-43-2)

**Conditions Test & Species** 

96 Hr LC50 Pimephales promelas 10.7-14.7 mg/L [flow-through] 5.3 mg/L [flow-96 Hr LC50 Oncorhynchus mykiss through] 96 Hr LC50 Lepomis macrochirus 22.49 mg/L [static]

96 Hr LC50 Poecilia reticulata 28.6 mg/L [static] 96 Hr LC50 Pimephales promelas 22330-41160 µg/L [static]

96 Hr LC50 Lepomis macrochirus 70000-142000 µg/L

[static] 72 Hr EC50 Pseudokirchneriella 29 mg/L

subcapitata

8.76 - 15.6 mg/L 48 Hr EC50 Daphnia magna

[Static] 10 mg/L

Hexane (110-54-3)

48 Hr EC50 Daphnia magna

**Test & Species Conditions** 

96 Hr LC50 Pimephales promelas 2.1-2.98 mg/L [flow-

through]

24 Hr EC50 Daphnia magna >1000 mg/L

# Persistence/Degradability

No information available.

#### **Bioaccumulation**

No information available.

# **Mobility in Soil**

No information available.

# **Section 13 - Disposal Considerations**

#### Waste Disposal Instructions

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

# Disposal of Contaminated Containers or Packaging

Dispose of contents/container in accordance with local/regional/national/international regulations.

Material Name: Gasoline All Grades SDS No. 9950

# \* \* \* Section 14 - Transportation Information \* \* \*

### **Component Marine Pollutants**

This material contains one or more of the following chemicals required by US DOT to be identified as marine pollutants.

Component	CAS#	
Gasoline, motor fuel	86290-81-5	DOT regulated marine pollutant

#### **DOT Information**

Shipping Name: Gasoline

UN #: 1203 Hazard Class: 3 Packing Group: II

Placard:



# \* \* \* Section 15 - Regulatory Information \* \* \*

# **Regulatory Information**

#### A: Component Analysis

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

#### Toluene (108-88-3)

SARA 313: 1.0 % de minimis concentration CERCLA: 1000 lb final RQ; 454 kg final RQ

### Xylenes (o-, m-, p- isomers) (1330-20-7)

SARA 313: 1.0 % de minimis concentration CERCLA: 100 lb final RQ; 45.4 kg final RQ

#### Benzene, 1,2,4-trimethyl- (95-63-6)

SARA 313: 1.0 % de minimis concentration

#### Ethylbenzene (100-41-4)

SARA 313: 0.1 % de minimis concentration CERCLA: 1000 lb final RQ; 454 kg final RQ

#### Benzene (71-43-2)

SARA 313: 0.1 % de minimis concentration

CERCLA: 10 lb final RQ (received an adjusted RQ of 10 lbs based on potential carcinogenicity in an

August 14, 1989 final rule); 4.54 kg final RQ (received an adjusted RQ of 10 lbs based on

potential carcinogenicity in an August 14, 1989 final rule)

Material Name: Gasoline All Grades

**SDS No. 9950** 

Hexane (110-54-3)

SARA 313: 1.0 % de minimis concentration CERCLA: 5000 lb final RQ; 2270 kg final RQ

#### SARA Section 311/312 - Hazard Classes

Acute Health Chronic Health Sudden Release of Pressure <u>Fire</u> Reactive Χ

#### **Component Marine Pollutants**

This material contains one or more of the following chemicals required by US DOT to be identified as marine pollutants.

Component	CAS#	
Gasoline, motor fuel	86290-81-5	DOT regulated marine pollutant

### **State Regulations**

#### **Component Analysis - State**

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
Gasoline, motor fuel	86290-81-5	No	No	No	No	Yes	No
Toluene	108-88-3	Yes	Yes	Yes	Yes	Yes	No
Butane	106-97-8	Yes	Yes	Yes	Yes	Yes	No
Xylenes (o-, m-, p- isomers)	1330-20-7	Yes	Yes	Yes	Yes	Yes	No
Benzene, 1,2,4-trimethyl-	95-63-6	No	Yes	Yes	Yes	Yes	No
Ethyl alcohol	64-17-5	Yes	Yes	Yes	Yes	Yes	No
Ethylbenzene	100-41-4	Yes	Yes	Yes	Yes	Yes	No
Benzene	71-43-2	Yes	Yes	Yes	Yes	Yes	No
Hexane	110-54-3	No	Yes	Yes	Yes	Yes	No

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause cancer.

WARNING! This product contains a chemical known to the state of California to cause reproductive/developmental effects.

**Material Name: Gasoline All Grades** 

**SDS No. 9950** 

#### **Component Analysis - WHMIS IDL**

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS#	Minimum Concentration
Toluene	108-88-3	1 %
Butane	106-97-8	1 %
Benzene, 1,2,4-trimethyl-	95-63-6	0.1 %
Ethyl alcohol	64-17-5	0.1 %
Ethylbenzene	100-41-4	0.1 %
Benzene	71-43-2	0.1 %
Hexane	110-54-3	1 %

#### **Additional Regulatory Information**

### **Component Analysis - Inventory**

Component	CAS#	TSCA	CAN	EEC
Gasoline, motor fuel	86290-81-5	No	DSL	EINECS
Toluene	108-88-3	Yes	DSL	EINECS
Butane	106-97-8	Yes	DSL	EINECS
Xylenes (o-, m-, p- isomers)	1330-20-7	Yes	DSL	EINECS
Benzene, 1,2,4-trimethyl-	95-63-6	Yes	DSL	EINECS
Ethyl alcohol	64-17-5	Yes	DSL	EINECS
Ethylbenzene	100-41-4	Yes	DSL	EINECS
Benzene	71-43-2	Yes	DSL	EINECS
Hexane	110-54-3	Yes	DSL	EINECS

# \* \* \* Section 16 - Other Information \* \* \*

**NFPA® Hazard Rating** H

Health 2 Fire 3

Reactivity 0



**HMIS® Hazard Rating** 

Health 2 Moderate

Fire 3 Serious Physical 0 Minimal

\*Chronic

### Key/Legend

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration., NJTSR = New Jersey Trade Secret Registry.

#### **Literature References**

None

Page 15 of 16	Revision Date 8/30/12

Material Name: Gasoline All Grades SDS No. 9950

### Other Information

Information presented herein has been compiled from sources considered to be dependable, and is accurate and reliable to the best of our knowledge and belief, but is not guaranteed to be so. Since conditions of use are beyond our control, we make no warranties, expressed or implied, except those that may be contained in our written contract of sale or acknowledgment.

Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material, even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in their use of the material.

End of Sheet



Material Name: Diesel Fuel, All Types

**SDS No. 9909 US GHS** 

Synonyms: Ultra Low Sulfur Diesel; Low Sulfur Diesel; No. 2 Diesel; Motor Vehicle Diesel Fuel; Non-

Road Diesel Fuel; Locomotive/Marine Diesel Fuel

# **Section 1 - Product and Company Identification**

#### **Manufacturer Information**

**Hess Corporation** 1 Hess Plaza Woodbridge, NJ 07095-0961 Phone: 732-750-6000 Corporate EHS Emergency #800-424-9300 CHEMTREC

www.hess.com (Environment, Health, Safety Internet Website)

# Section 2 - Hazards Identification

#### **GHS Classification:**

Flammable Liquids - Category 3

Skin Corrosion/Irritation - Category 2

Germ Cell Mutagenicity - Category 2

Carcinogenicity - Category 2

Specific Target Organ Toxicity (Single Exposure) - Category 3 (respiratory irritation, narcosis)

Aspiration Hazard - Category 1

Hazardous to the Aquatic Environment, Acute Hazard – Category 3

# **GHS LABEL ELEMENTS**

### Symbol(s)



# Signal Word

**DANGER** 

#### **Hazard Statements**

Flammable liquid and vapor.

Causes skin irritation.

Suspected of causing genetic defects.

Suspected of causing cancer.

May cause respiratory irritation.

May cause drowsiness or dizziness.

May be fatal if swallowed and enters airways.

Harmful to aquatic life.

#### **Precautionary Statements**

#### Prevention

Keep away from heat/sparks/open flames/hot surfaces. No smoking

Keep container tightly closed.

Ground/bond container and receiving equipment.

# Material Name: Diesel Fuel, All Types

**SDS No. 9909** 

Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Wear protective gloves/protective clothing/eye protection/face protection.

Wash hands and forearms thoroughly after handling.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Avoid breathing fume/mist/vapours/spray.

#### Response

In case of fire: Use water spray, fog or foam to extinguish.

IF ON SKIN (or hair): Wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.

If swallowed: Immediately call a poison center or doctor. Do NOT induce vomiting.

IF exposed or concerned: Get medical advice/attention.

#### **Storage**

Store in a well-ventilated place. Keep cool.

Keep container tightly closed.

Store locked up.

#### **Disposal**

Dispose of contents/container in accordance with local/regional/national/international regulations.

# \* \* \* Section 3 - Composition / Information on Ingredients \* \* \*

CAS#	Component	Percent
68476-34-6	Fuels, diesel, no. 2	100
91-20-3	Naphthalene	<0.1

A complex mixture of hydrocarbons with carbon numbers in the range C9 and higher.

\* \* \* Section 4 - First Aid Measures \* \* \*

### First Aid: Eyes

In case of contact with eyes, immediately flush with clean, low-pressure water for at least 15 min. Hold eyelids open to ensure adequate flushing. Seek medical attention.

#### First Aid: Skin

Remove contaminated clothing. Wash contaminated areas thoroughly with soap and water or with waterless hand cleanser. Obtain medical attention if irritation or redness develops. Thermal burns require immediate medical attention depending on the severity and the area of the body burned.

### First Aid: Ingestion

DO NOT INDUCE VOMITING. Do not give liquids. Obtain immediate medical attention. If spontaneous vomiting occurs, lean victim forward to reduce the risk of aspiration. Monitor for breathing difficulties. Small amounts of material which enter the mouth should be rinsed out until the taste is dissipated.

Page 2 of 10	Revision Date 8/30/12

Material Name: Diesel Fuel, All Types SDS No. 9909

#### First Aid: Inhalation

Remove person to fresh air. If person is not breathing, provide artificial respiration. If necessary, provide additional oxygen once breathing is restored if trained to do so. Seek medical attention immediately.

# \* \* \* Section 5 - Fire Fighting Measures \* \* \*

#### **General Fire Hazards**

See Section 9 for Flammability Properties.

Vapors may be ignited rapidly when exposed to heat, spark, open flame or other source of ignition. When mixed with air and exposed to an ignition source, flammable vapors can burn in the open or explode in confined spaces. Being heavier than air, vapors may travel long distances to an ignition source and flash back. Runoff to sewer may cause fire or explosion hazard.

#### **Hazardous Combustion Products**

Carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke).

### **Extinguishing Media**

SMALL FIRES: Any extinguisher suitable for Class B fires, dry chemical, CO2, water spray, fire fighting foam, and other gaseous agents.

LARGE FIRES: Water spray, fog or fire fighting foam. Water may be ineffective for fighting the fire, but may be used to cool fire-exposed containers.

# **Unsuitable Extinguishing Media**

None

# Fire Fighting Equipment/Instructions

Small fires in the incipient (beginning) stage may typically be extinguished using handheld portable fire extinguishers and other fire fighting equipment. Firefighting activities that may result in potential exposure to high heat, smoke or toxic by-products of combustion should require NIOSH/MSHA- approved pressure-demand self-contained breathing apparatus with full facepiece and full protective clothing. Isolate area around container involved in fire. Cool tanks, shells, and containers exposed to fire and excessive heat with water. For massive fires the use of unmanned hose holders or monitor nozzles may be advantageous to further minimize personnel exposure. Major fires may require withdrawal, allowing the tank to burn. Large storage tank fires typically require specially trained personnel and equipment to extinguish the fire, often including the need for properly applied fire fighting foam.

# \* \* \* Section 6 - Accidental Release Measures \* \* \*

#### **Recovery and Neutralization**

Carefully contain and stop the source of the spill, if safe to do so.

### **Materials and Methods for Clean-Up**

Take up with sand or other oil absorbing materials. Carefully shovel, scoop or sweep up into a waste container for reclamation or disposal. Caution, flammable vapors may accumulate in closed containers.

#### **Emergency Measures**

Evacuate nonessential personnel and remove or secure all ignition sources. Consider wind direction; stay upwind and uphill, if possible. Evaluate the direction of product travel, diking, sewers, etc. to confirm spill areas. Spills may infiltrate subsurface soil and groundwater; professional assistance may be necessary to determine the extent of subsurface impact.

Page 3 of 10	Revision Date 8/30/12

Material Name: Diesel Fuel, All Types SDS No. 9909

### **Personal Precautions and Protective Equipment**

Response and clean-up crews must be properly trained and must utilize proper protective equipment (see Section 8).

#### **Environmental Precautions**

Protect bodies of water by diking, absorbents, or absorbent boom, if possible. Do not flush down sewer or drainage systems, unless system is designed and permitted to handle such material. The use of fire fighting foam may be useful in certain situations to reduce vapors. The proper use of water spray may effectively disperse product vapors or the liquid itself, preventing contact with ignition sources or areas/equipment that require protection.

### **Prevention of Secondary Hazards**

None

# **Section 7 - Handling and Storage**

### **Handling Procedures**

Handle as a combustible liquid. Keep away from heat, sparks, excessive temperatures and open flame! No smoking or open flame in storage, use or handling areas. Bond and ground containers during product transfer to reduce the possibility of static-initiated fire or explosion.

Special slow load procedures for "switch loading" must be followed to avoid the static ignition hazard that can exist when higher flash point material (such as fuel oil) is loaded into tanks previously containing low flash point products (such as this product) - see API Publication 2003, "Protection Against Ignitions Arising Out Of Static, Lightning and Stray Currents."

# Storage Procedures

Keep away from flame, sparks, excessive temperatures and open flame. Use approved vented containers. Keep containers closed and clearly labeled. Empty product containers or vessels may contain explosive vapors. Do not pressurize, cut, heat, weld or expose such containers to sources of ignition.

Store in a well-ventilated area. This storage area should comply with NFPA 30 "Flammable and Combustible Liquid Code". Avoid storage near incompatible materials. The cleaning of tanks previously containing this product should follow API Recommended Practice (RP) 2013 "Cleaning Mobile Tanks In Flammable and Combustible Liquid Service" and API RP 2015 "Cleaning Petroleum Storage Tanks."

#### **Incompatibilities**

Keep away from strong oxidizers.

# **Section 8 - Exposure Controls / Personal Protection**

# **Component Exposure Limits**

Fuels, diesel, no. 2 (68476-34-6)

100 mg/m3 TWA (inhalable fraction and vapor, as total hydrocarbons, listed under Diesel fuel) Skin - potential significant contribution to overall exposure by the cutaneous route (listed under Diesel fuel)

Material Name: Diesel Fuel, All Types SDS No. 9909

Naphthalene (91-20-3)

ACGIH: 10 ppm TWA 15 ppm STEL

Skin - potential significant contribution to overall exposure by the cutaneous route

OSHA: 10 ppm TWA; 50 mg/m3 TWA NIOSH: 10 ppm TWA; 50 mg/m3 TWA 15 ppm STEL; 75 mg/m3 STEL

#### **Engineering Measures**

Use adequate ventilation to keep vapor concentrations of this product below occupational exposure and flammability limits, particularly in confined spaces.

### Personal Protective Equipment: Respiratory

A NIOSH/MSHA-approved air-purifying respirator with organic vapor cartridges or canister may be permissible under certain circumstances where airborne concentrations are or may be expected to exceed exposure limits or for odor or irritation. Protection provided by air-purifying respirators is limited.

Use a positive pressure, air-supplied respirator if there is a potential for uncontrolled release, exposure levels are not known, in oxygen-deficient atmospheres, or any other circumstance where an air-purifying respirator may not provide adequate protection.

# **Personal Protective Equipment: Hands**

Gloves constructed of nitrile, neoprene, or PVC are recommended.

### **Personal Protective Equipment: Eyes**

Safety glasses or goggles are recommended where there is a possibility of splashing or spraying.

### Personal Protective Equipment: Skin and Body

Chemical protective clothing such as of E.I. DuPont TyChem®, Saranex® or equivalent recommended based on degree of exposure. Note: The resistance of specific material may vary from product to product as well as with degree of exposure. Consult manufacturer specifications for further information.

# Section 9 - Physical & Chemical Properties

Appearance: Clear, straw-yellow. Odor: Mild, petroleum distillate odor

Physical State: Liquid pH: ND **Vapor Pressure:** 0.009 psia @ 70 °F (21 °C) Vapor Density: >1.0 **Boiling Point:** 320 to 690 °F (160 to 366 °C) Melting Point: ND

Solubility (H2O): Negligible **Specific Gravity:** 0.83-0.876 @ 60°F (16°C)

**Evaporation Rate:** Slow; varies with conditions VOC: Octanol/H2O Coeff.: Percent Volatile: 100% ND Flash Point: >125 °F (>52 °C) minimum Flash Point Method: PMCC

Lower Flammability Limit 0.6 **Upper Flammability Limit** 7.5 (UFL):

(LFL):

Burning Rate: ND Auto Ignition: 494°F (257°C)

# Section 10 - Chemical Stability & Reactivity Information

### **Chemical Stability**

This is a stable material.

#### **Hazardous Reaction Potential**

Will not occur.

Page 5 of 10	Revision Date 8/30/12

Material Name: Diesel Fuel, All Types SDS No. 9909

#### **Conditions to Avoid**

Avoid high temperatures, open flames, sparks, welding, smoking and other ignition sources.

### **Incompatible Products**

Keep away from strong oxidizers.

#### **Hazardous Decomposition Products**

Carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke).

Section 11 - Toxicological Information

# **Acute Toxicity**

#### A: General Product Information

Harmful if swallowed.

#### B: Component Analysis - LD50/LC50

Naphthalene (91-20-3)

Inhalation LC50 Rat >340 mg/m3 1 h; Oral LD50 Rat 490 mg/kg; Dermal LD50 Rat >2500 mg/kg; Dermal LD50 Rabbit >20 g/kg

### Potential Health Effects: Skin Corrosion Property/Stimulativeness

Practically non-toxic if absorbed following acute (single) exposure. May cause skin irritation with prolonged or repeated contact. Liquid may be absorbed through the skin in toxic amounts if large areas of skin are repeatedly exposed.

#### Potential Health Effects: Eye Critical Damage/ Stimulativeness

Contact with eyes may cause mild irritation.

### **Potential Health Effects: Ingestion**

Ingestion may cause gastrointestinal disturbances, including irritation, nausea, vomiting and diarrhea, and central nervous system (brain) effects similar to alcohol intoxication. In severe cases, tremors, convulsions, loss of consciousness, coma, respiratory arrest, and death may occur.

#### Potential Health Effects: Inhalation

Excessive exposure may cause irritations to the nose, throat, lungs and respiratory tract. Central nervous system (brain) effects may include headache, dizziness, loss of balance and coordination, unconsciousness, coma, respiratory failure, and death.

WARNING: the burning of any hydrocarbon as a fuel in an area without adequate ventilation may result in hazardous levels of combustion products, including carbon monoxide, and inadequate oxygen levels, which may cause unconsciousness, suffocation, and death.

### Respiratory Organs Sensitization/Skin Sensitization

This product is not reported to have any skin sensitization effects.

#### Generative Cell Mutagenicity

This material has been positive in a mutagenicity study.

### Carcinogenicity

# A: General Product Information

Suspected of causing cancer.

#### Material Name: Diesel Fuel, All Types

SDS No. 9909

Studies have shown that similar products produce skin tumors in laboratory animals following repeated applications without washing or removal. The significance of this finding to human exposure has not been determined. Other studies with active skin carcinogens have shown that washing the animal's skin with soap and water between applications reduced tumor formation.

#### **B: Component Carcinogenicity**

Fuels, diesel, no. 2 (68476-34-6)

ACGIH: A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans (listed under Diesel

fuel)

#### Naphthalene (91-20-3)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

NTP: Reasonably Anticipated To Be A Human Carcinogen (Possible Select Carcinogen)

IARC: Monograph 82 [2002] (Group 2B (possibly carcinogenic to humans))

### Reproductive Toxicity

This product is not reported to have any reproductive toxicity effects.

### Specified Target Organ General Toxicity: Single Exposure

This product is not reported to have any specific target organ general toxicity single exposure effects.

### Specified Target Organ General Toxicity: Repeated Exposure

This product is not reported to have any specific target organ general toxicity repeat exposure effects.

# Aspiration Respiratory Organs Hazard

The major health threat of ingestion occurs from the danger of aspiration (breathing) of liquid drops into the lungs, particularly from vomiting. Aspiration may result in chemical pneumonia (fluid in the lungs), severe lung damage, respiratory failure and even death.

# **Section 12 - Ecological Information**

#### **Ecotoxicity**

#### A: General Product Information

Keep out of sewers, drainage areas and waterways. Report spills and releases, as applicable, under Federal and State regulations.

### B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Fuels, diesel, no. 2 (68476-34-6)

96 Hr LC50 Oncorhynchus mykiss

**Conditions Test & Species** 

96 Hr LC50 Pimephales promelas 35 mg/L [flowthrough]

Naphthalene (91-20-3)

**Test & Species Conditions** 

96 Hr LC50 Pimephales promelas 5.74-6.44 mg/L

> [flow-through] 1.6 mg/L [flow-

through] 96 Hr LC50 Oncorhynchus mykiss 0.91-2.82 mg/L

[static]

96 Hr LC50 Pimephales promelas 1.99 mg/L [static]

#### Material Name: Diesel Fuel, All Types

**SDS No. 9909** 

96 Hr LC50 Lepomis macrochirus 31.0265 mg/L

[static]

72 Hr EC50 Skeletonema costatum
48 Hr LC50 Daphnia magna
2.16 mg/L
48 Hr EC50 Daphnia magna
1.96 mg/L [Flow

through]

48 Hr EC50 Daphnia magna 1.09 - 3.4 mg/L

[Static]

### Persistence/Degradability

No information available.

#### **Bioaccumulation**

No information available.

# **Mobility in Soil**

No information available.

# \* \* \* Section 13 - Disposal Considerations \* \* \*

### **Waste Disposal Instructions**

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

# **Disposal of Contaminated Containers or Packaging**

Dispose of contents/container in accordance with local/regional/national/international regulations.

# \* \* \* Section 14 - Transportation Information \* \* \*

#### **DOT Information**

Shipping Name: Diesel Fuel

NA #: 1993 Hazard Class: 3 Packing Group: III

Placard:



# \* \* \* Section 15 - Regulatory Information \* \* \*

### **Regulatory Information**

#### **Component Analysis**

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

#### Naphthalene (91-20-3)

CERCLA: 100 lb final RQ; 45.4 kg final RQ

#### SARA Section 311/312 - Hazard Classes

Acute Health Chronic Health Fire Sudden Release of Pressure Reactive X X --- Reactive

Material Name: Diesel Fuel, All Types SDS No. 9909

#### **SARA SECTION 313 - SUPPLIER NOTIFICATION**

This product may contain listed chemicals below the de minimis levels which therefore are not subject to the supplier notification requirements of Section 313 of the Emergency Planning and Community Right- To-Know Act (EPCRA) of 1986 and of 40 CFR 372. If you may be required to report releases of chemicals listed in 40 CFR 372.28, you may contact Hess Corporate Safety if you require additional information regarding this product.

#### **State Regulations**

#### **Component Analysis - State**

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
Fuels, diesel, no. 2	68476-34-6	No	No	No	Yes	No	No
Naphthalene	91-20-3	Yes	Yes	Yes	Yes	Yes	No

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause cancer.

#### Component Analysis - WHMIS IDL

No components are listed in the WHMIS IDL.

# **Additional Regulatory Information**

#### **Component Analysis - Inventory**

Component	CAS#	TSCA	CAN	EEC
Fuels, diesel, no. 2	68476-34-6	Yes	DSL	EINECS
Naphthalene	91-20-3	Yes	DSL	EINECS

# **Section 16 - Other Information**

**NFPA® Hazard Rating** 

1 Health 2 Fire

Reactivity



**HMIS® Hazard Rating** 

Health Fire

Slight

2 Moderate

Physical

Minimal \*Chronic

Material Name: Diesel Fuel, All Types SDS No. 9909

### Key/Legend

ACGIH = American Conference of Governmental Industrial Hygienists; ADG = Australian Code for the Transport of Dangerous Goods by Road and Rail; ADR/RID = European Agreement of Dangerous Goods by Road/Rail; AS = Standards Australia; DFG = Deutsche Forschungsgemeinschaft; DOT = Department of Transportation; DSL = Domestic Substances List; EEC = European Economic Community; EINECS = European Inventory of Existing Commercial Chemical Substances; ELINCS = European List of Notified Chemical Substances; EU = European Union; HMIS = Hazardous Materials Identification System; IARC = International Agency for Research on Cancer; IMO = International Maritime Organization; IATA = International Air Transport Association; MAK = Maximum Concentration Value in the Workplace; NDSL = Non-Domestic Substances List; NFPA = National Toxicology Program; STEL = Short-term Exposure Limit; TDG = Transportation of Dangerous Goods; TLV = Threshold Limit Value; TSCA = Toxic Substances Control Act; TWA = Time Weighted Average

#### Literature References

None

#### Other Information

Information presented herein has been compiled from sources considered to be dependable, and is accurate and reliable to the best of our knowledge and belief, but is not guaranteed to be so. Since conditions of use are beyond our control, we make no warranties, expressed or implied, except those that may be contained in our written contract of sale or acknowledgment.

Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material, even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in their use of the material.

End of Sheet



# **SAFETY DATA SHEET**

# 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

TRADE NAME	1260 MG-KRETE CONCRETE	RESURFACER - Part B	D2B
PRODUCT USE	Activator for Concrete Repair Material	(MG-KRETE 1260 - Part A, FINE	F, FLEX, REGULAR, or STAMP)
MANUFACTURE'S NAME	IMCO TECHNOLOGIES	TEL 1-877-957-4626	IMCO TECHNOLOGIES
	6254 SKYWAY RD., PO BOX 915	FAX 905-527-0606	3909 Witmer RD, Suite 1014
	SMITHVILLE, ON. LOR 2A0		NIAGARA FALLS, NY 14305
EMERGENCY NUMBER	613-996-6666 or *666 CANUTEC		
	1-800-535-5053 UNITED STATES P	OISON INFORMATION CENTRE	

# 2. HAZARDS IDENTIFICATION



#### Decomposes to release ammonia at high temperature.

ROUTE OF ENTRY	Eye contact, Ingestion, Skin contact.
CARCINOGENIC STATUS	Not considered carcinogenic by NTP, IARC, and OSHA.
TARGET ORGANS	Eye, Skin.
HEALTH EFFECTS – EYE	Direct contact may cause mild irritation.
HEALTH EFFECTS – SKIN	Material may cause mild irritation.
HEALTH EFFECTS – INGESTION	Low ingestion hazard in normal use. Repeated ingestion or swallowing large amounts
	may injure internally.
HEALTH EFFECTS – INHALATION	Not generally considered an inhalation hazard.



NFPA



**HMIS** 

5-MINIMAL; 4-SLIGHT; 3-MODERATE; 2-HIGH; 1-EXTREME

### 3.COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS NUMBER	WEIGHT %	TWA	LD50	LC50
			ppm	ORAL RAT Mg/kg	INHAL RAT ppm
NO HAZARDOUS INGREDIENTS	NA	NA	NA	NA	NA

# 4. FIRST AID MEASURES

FIRST AID – INHALATION	Remove from exposure. Obtain medical attention immediately.
FIRST AID – SKIN	Flush skin with soap and water if irritation develops.
FIRST AID – EYE	Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain
	medical attention if soreness or redness persists.
FIRST AID – INGESTION	Rinse mouth out with water. If person is conscious, dilute stomach contents with water and induce
	vomiting.

#### INFORMATION FOR DOCTOR

Most important symptoms and effects, both acute and delayed.

No further relevant information

Indications of any immediate medical attention and special treatment needed.

No further relevant information available.

# 5. FIRE FIGHTING MEASURES

CONDITIONS OF FLAMMABILITY	Non-flammable. Used as a fire-retardant.
EXTINGUISHING MEDIA	This solution is essentially nonflammable. If involved in a fire, use water. All standard agents are acceptable – water, dry chemical, Carbon Dioxide and foam.
SPECIAL HAZARDS OF PRODUCT	When heated, it may give off ammonia fumes. (This material is a fire retardant)
PROTECTIVE EQUIPMENT FOR FIRE FIGHTING	Due to possible evolution of ammonia, wear self-contained breathing apparatus approved by NIOSH. Use water spray to keep containers cool.
EXPLOSION DATA - SENSITIVITY TO IMPACT	NO
EXPLOSION DATA – SENSITIVITY TO STATIC DISCHARGE	NO

# 6. ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURES	Dike and contain spill with inert material e.g. sand or earth. Transfer liquid to containers for
	recovery or disposal and diking material to separate containers for disposal.
PERSONAL PRECAUTIONS	If spilled, floor may be slippery, use care to avoid falling. Minimize contact of liquid with eyes, skin and clothing.
ENVIRONMENTAL PRECAUTIONS	Prevent the material from entering drains or watercourses. Notify authorities if spill has entered
ENVIRONMENTAL FREGACTIONS	
	watercourse or sewer.

#### **REFERENCES TO OTHER SECTIONS**

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment

See Section 13 for disposal information

# 7. HANDLING AND STORAGE

HANDLING	Avoid contact with eyes, skin and clothing.
STORAGE	Avoid using containers, pipes and fittings made of zinc-clad or copper-bearing alloys that are corroded by ammonia.

#### INFORMATION ABOUT PROTECTION AGAINST EXPLOSION AND FIRE

Keep ignition sources away - Do not smoke Protect against electrostatic charges

### SPECIFIC END USE(S)

No further relevant information available

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROL MEASURES	Good ventilation practice should be exercised where necessary.
RESPIRATORY PROTECTION	None required under normal conditions.
HAND PROTECTION	Full-length gloves should be worn during all handling operations. Neoprene gloves.
EYE PROTECTION	Chemical goggles should be worn during all handling operations to protect against splashing.
BODY PROTECTION	Discard contaminated protective equipment. If there is danger of splashing, wear overall or apron.
PROTECTION DURING	Will release ammonia gas when mixed with 1260 Part A. Venting or respiration equipment may be
APPLICATION	required when working in confined spaces.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Liquid
ODOUR & APPEARANCE	Slight ammonia, Dark Green
ODOR THRESHOLD (ppm)	NA
SPECIFIC GRAVITY	1.38 – 1.44
VAPOR DENSITY (AIR = 1)	NA
VAPOR PRESSURE 20 C	NA
EVAPORATION RATE	NA
BOILING POINT (°C)	104 – 110C
FREEZING POINT (°C)	NA
pH	5.9 – 6.1
COEFFICIENT OF WATER/OIL DISTRIBUTION	NA
SOLUBILITY IN WATER	Complete
VOC (g/l)	0
FLASH POINT (PMCC) (°C/F)	Non-flammable
UPPER FLAMMABLE LIMIT %VOL	None
LOWER FLAMMABLE LIMIT %VOL	None
AUTOIGNITION TEMP (°C/F)	None

# 10. STABILITY AND REACTIVITY

STABILITY	Stable under normal conditions		
CONDITIONS TO AVOID	When heated as in a fire, gives off ammonia gas.		
MATERIALS TO AVOID	Zinc clad, copper-bearing alloys and aluminum. Water reactive		
	materials.		
HAZARDOUS POLYMERIZATION	Will not occur.		
HAZARDOUS DECOMPOSITION PRODUCTS	Decomposes to produce ammonia at high temperatures.		

# 11. TOXICOLOGICAL INFORMATION

EFFECTS OF ACUTE EXPOSURE	May irritate eyes and skin upon contact. May cause nausea or diarrhea if ingested.		
EFFECTS OF CHRONIC EXPOSURE	May irritate skin, direct contact with eyes irritates with redness and swelling.		
EXPOSURE LIMITS	None established for this product.		
IRRITANCY	Mild irritation expected		
SENSITIZATION	No		
CARCINOGENICITY	Not listed by ACGIH, IARC, OSHA, and NTP.		
REPRODUCTIVE TOXICITY	No known effect in humans		
TERATOGENICITY	Not listed by ACGIH, IARC, OSHA, and NTP.		
MUTAGENICITY	Not listed by ACGIH, IARC, OSHA, and NTP.		
TOXICOLOGICALLY SYNERGISTIC PRODUCTS	NA NA		

# 12. ECOLOGICAL INFORMATION

MOBILITY	Expected to break down in environment to ammonia and phosphate salts.	
PERSISTENCE/DEGRADABILITY	The product is expected to biodegrade slowly.	
BIO-ACCUMULATION	Product may bioaccumulate to a limited extent	
ECOTOXICITY	Unknown – depends on concentration. In high concentrations, may be toxic, due to pH changes and ammonia	
	discharge.	
DECLUITS of DDT and v.DvD. Accessment		

#### RESULTS of PBT and vPvB Assessment

PBT: N/A vPvB: N/A

# 13. DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL	If uncontaminated, recover and re-use. Landfill or incinerate the solids and the contaminated diking material according to local, state or federal regulations.	
CONTAINER DISPOSAL	Labels should not be removed from containers until they have been cleaned. Recycle or dispose of according to local, state or federal regulations.	

#### **UNCLEANED PACKAGINGS**

**Recommendation:** Disposal must be made according to official regulations

### 14. TRANSPORTATION INFORMATION

CANADA	TDG CLASSIFICATION		
HAZARD LABEL NOT REQUIRED	Not Regulated.		
EXPORT			
DOT CFR 172.101 DATA	Not Regulated by D.O.T.		
UN PROPER SHIPPING NAME	NA		
UN CLASS	NA		
UN NUMBER	NA		
UN PACKAGING GROUP	NA		
FLASH POINT	NA		
HAZARDOUS MATERIAL	NA		
HAZARD LABEL	NA		
MARINE POLLUTANT	NO		
SPECIFIC PRECAUTIONS FOR USER	M/A		

# 15. REGULATORY INFORMATION

WHMIS (Canada): Not controlled under WHMIS (Canada)

CEPA STATUS (DSL) : All of the ingredients of this product are listed on the Domestic Substances List.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by CPR.

#### 16. OTHER INFORMATION

HAZARD RATING	HEALTH: 4 FLAMMABLITY: 5 REACTIVITY: 5					
(HMIS) KEY	5-MINIMAL; 4-SLIGHT; 3-MODERATE; 2-HIGH; 1-EXTREME  NA: No applicable information found or available CAS#: Chemical Abstracts Service Number ACGIH: American Conference of Governmental Industrial Hygienists OSHA: Occupational Safety and Health Administration TLV: Threshold Limit Value PEL: Permissible Exposure Limit STEL: Short Term Exposure Limit NTP: National Toxicology Program IARC: International Agency for Research on Cancer R: Risk					
	S: Safety					
	LD50: Lethal Dose 50%					
	LC50: Lethal Concentration 50%					
PREPARED BY:	IMCO Technologies Inc.					
SDS REVISION DATE	November 5, 2018					

Provided data is offered in good faith as typical values and not as a product specification. No warranty, either express or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable, however, each user should review these recommendations.

# SAFETY DATA SHEET

# **JCB Brake Fluid**



# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name : JCB Brake Fluid

Material uses : Brake fluids.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Not applicable.

1.3 Details of the supplier of the safety data sheet

Manufacturer / Distributor : JCB Service

World Parts Centre Waterloo Park Beamhurst Staffordshire England ST14 5PA

e-mail address of person responsible for this SDS

: aftermarketproduct.hotline@jcb.com (Mon to Fri 9.00am to 4.00pm UK time)

Communication in English only

1.4 Emergency telephone number

Telephone number : +44 1865 407333 - English language only

+1 202 464 2554 - English language only specific to US and Canada

# **SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

SERIOUS EYE DAMAGE/ EYE IRRITATION Category 2 H319

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

Ingredients of unknown : None.

toxicity

Ingredients of unknown : None.

ecotoxicity

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms



Signal word : Warning

**Hazard statements** : H319 - Causes serious eye irritation.

**Precautionary statements** 

Date of issue/Date of revision :15-06-2018 Date of previous issue :19-05-2017 Version :2.02 1/12

#### Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830

JCB Brake Fluid

### SECTION 2: Hazards identification

: P280 - Wear eye or face protection. **Prevention** 

P264 - Wash hands thoroughly after handling.

: P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Response

Remove contact lenses, if present and easy to do. Continue rinsing.

**Storage** : Not applicable. **Disposal** : Not applicable. Supplemental label

elements

articles

: Not applicable.

**Annex XVII - Restrictions** on the manufacture, placing on the market and use of certain dangerous substances, mixtures and

: Not applicable.

Special packaging requirements

Containers to be fitted with child-resistant

: Not applicable.

fastenings

**Tactile warning of danger** : Not applicable.

2.3 Other hazards

Other hazards which do not result in classification : None known.

# **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре	Notes
2-[2-(2-butoxyethoxy)ethoxy] ethanol	REACH #: 01-2119475107-38 EC: 205-592-6 CAS: 143-22-6 Index: 603-183-00-0	≥10 - ≤25	Eye Dam. 1, H318	[1]	-
1,1'-iminodipropan-2-ol	REACH #: 01-2119475444-34 EC: 203-820-9 CAS: 110-97-4 Index: 603-083-00-7	≤3	Eye Irrit. 2, H319	[1]	-
			See Section 16 for the full text of the H statements declared above.		

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

### Type

- Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

Occupational exposure limits, if available, are listed in Section 8.

Date of issue/Date of revision :15-06-2018 :19-05-2017 Version : 2.02 2/12 Date of previous issue

JCB Brake Fluid

### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

Eye contact :

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10

minutes. Get medical attention.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide

artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person

may need to be kept under medical surveillance for 48 hours.

**Skin contact**: Wash skin thoroughly with soap and water or use recognized skin cleanser.

Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air

and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such

as a collar, tie, belt or waistband.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

#### 4.2 Most important symptoms and effects, both acute and delayed

**Over-exposure signs/symptoms** 

**Eye contact** : Adverse symptoms may include the following:

pain or irritation watering redness

Inhalation : No specific data.

**Skin contact**: Adverse symptoms may include the following:

irritation dryness cracking

Ingestion : No specific data.

# 4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments**: No specific treatment.

# **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing** 

media

: None known.

#### 5.2 Special hazards arising from the substance or mixture

Date of issue/Date of revision :15-06-2018 Date of previous issue :19-05-2017 Version : 2.02 3/12

# Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830

JCB Brake Fluid

# **SECTION 5: Firefighting measures**

Hazards from the substance or mixture

: In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous combustion products

: Decomposition products may include the following materials: carbon dioxide

carbon monoxide nitrogen oxides

#### 5.3 Advice for firefighters

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders:

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

# 6.2 Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### 6.3 Methods and materials for containment and cleaning up

**Small spill** 

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

6.4 Reference to other sections

: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

# **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

Date of issue/Date of revision :15-06-2018 Date of previous issue :19-05-2017 Version : 2.02 4/12

# Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830

JCB Brake Fluid

# **SECTION 7: Handling and storage**

#### **Protective measures**

: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

# Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

## 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## 7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : Not available.

solutions

## **SECTION 8: Exposure controls/personal protection**

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

## 8.1 Control parameters

#### Occupational exposure limits

No exposure limit value known.

# Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

## **DNELs/DMELs**

No DNELs/DMELs available.

### **PNECs**

No PNECs available.

## 8.2 Exposure controls

Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**Individual protection measures** 

Date of issue/Date of revision :15-06-2018 Date of previous issue :19-05-2017 Version : 2.02 5/12

JCB Brake Fluid

## SECTION 8: Exposure controls/personal protection

#### **Hygiene measures**

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

## **Eye/face protection**

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

## **Skin protection**

**Hand protection** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Wear suitable gloves tested to EN374. Recommended: < 1 hour (breakthrough time): nitrile rubber 0.17 mm.

#### **Body protection**

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

## Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

#### **Respiratory protection**

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended: Boiling point > 65 °C: A1; Boiling point < 65 °C: AX1; Hot material: A1P2.

## **Environmental exposure** controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

# **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

#### **Appearance**

**Physical state** : Liquid. **Appearance** Clear.

Color : Amber. [Light] : Ethereal. [Slight] Odor **Odor threshold** Not available. : Not available. pН Melting point/freezing point : <-50°C

Initial boiling point and

boiling range

Flash point

: Closed cup: >110°C [ASTM D93.]

: >210°C

: Not available. **Evaporation rate** Flammability (solid, gas) : Not available. Upper/lower flammability or : Not available.

explosive limits

Not available. Vapor pressure : Not available. Vapor density

:19-05-2017 Date of issue/Date of revision :15-06-2018 Version : 2.02 6/12 Date of previous issue

## Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830

JCB Brake Fluid

# SECTION 9: Physical and chemical properties

: 1.025 to 1.09 **Relative density** 

Solubility(ies) : Easily soluble in the following materials: cold water and hot water.

Partition coefficient: n-octanol/ : Not available.

water

**Auto-ignition temperature** : >350°C **Decomposition temperature** : >210°C

Viscosity (40°C) : Not available. **Explosive properties** : Not applicable. **Oxidizing properties** : Not applicable.

#### 9.2 Other information

## SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : The product is stable.

10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : No specific data.

10.5 Incompatible materials : No specific data.

10.6 Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# SECTION 11: Toxicological information

## 11.1 Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
CB Brake Fluid 2-[2-(2-butoxyethoxy)ethoxy]	LD50 Oral LD50 Oral	Rat Rat	>5000 mg/kg 5300 mg/kg	-
ethanol 1,1'-iminodipropan-2-ol	LD50 Oral	Rat	4765 mg/kg	-

: Not available. **Conclusion/Summary** 

**Acute toxicity estimates** 

Not available.

## **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
[2-[2-butoxyethoxy)ethoxy] ethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
1,1'-iminodipropan-2-ol	Eyes - Severe irritant Skin - Mild irritant	Rabbit Rabbit	-	50 milligrams 500	-
	Ottor Wild Hitchit			milligrams	

**Conclusion/Summary** 

**Sensitization** 

: Not available.

**Conclusion/Summary** : Not available.

Date of issue/Date of revision :15-06-2018 :19-05-2017 Version : 2.02 7/12 Date of previous issue

# Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830

JCB Brake Fluid

# **SECTION 11: Toxicological information**

Mutagenicity

**Conclusion/Summary**: Not available.

**Carcinogenicity** 

**Conclusion/Summary**: Not available.

**Reproductive toxicity** 

**Conclusion/Summary**: Not available.

**Teratogenicity** 

Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

**Aspiration hazard** 

Not available.

Information on the likely

routes of exposure

: Not available.

Potential acute health effects

**Eye contact** : Causes serious eye irritation.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact**: Defatting to the skin. May cause skin dryness and irritation.

**Ingestion** : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following:

pain or irritation watering redness

Inhalation : No specific data.

**Skin contact**: Adverse symptoms may include the following:

irritation dryness cracking

**Ingestion**: No specific data.

## Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

**Long term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

**Conclusion/Summary**: Not available.

General: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/

or dermatitis.

Date of issue/Date of revision :15-06-2018 Date of previous issue :19-05-2017 Version :2.02 8/12

# Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830

JCB Brake Fluid

## **SECTION 11: Toxicological information**

Carcinogenicity: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.

Developmental effects: No known significant effects or critical hazards.

Fertility effects: No known significant effects or critical hazards.

Other information : Not available.

# **SECTION 12: Ecological information**

## 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
<b>⊮</b> CB Brake Fluid	LC50 >100 mg/l	Fish	96 hours
2-[2-(2-butoxyethoxy)ethoxy]	EC50 >500 mg/l	Aquatic plants	72 hours
ethanol			
	EC50 500 to 6600 mg/l	Daphnia	48 hours
1,1'-iminodipropan-2-ol	EC50 270 mg/l	Aquatic plants	72 hours
	EC50 277.7 mg/l	Daphnia	48 hours
	LC50 580 mg/l	Fish	96 hours

**Conclusion/Summary**: Not available.

## 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
2-[2-(2-butoxyethoxy)ethoxy] ethanol	OECD 302B	100 % - 28 days	-	-
	OECD 301E	88 to 92 % - 28 days	-	-
1,1'-iminodipropan-2-ol	OECD 301F 301F Ready Biodegradability - Manometric Respirometry Test	94 % - 28 days	-	-
	OECD 302B 302B Inherent Biodegradability: Zahn-Wellens/ EMPA Test	90 to 100 % - Readily - 7 days	-	-

Conclusion/Summary : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
[2-[2-(2-butoxyethoxy)ethoxy] ethanol	-	-	Readily
1,1'-iminodipropan-2-ol	-	-	Readily

## 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
2-[2-(2-butoxyethoxy)ethoxy]	0.51	<100	low
ethanol 1,1'-iminodipropan-2-ol	-0.82	<100	low

### 12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

Date of issue/Date of revision :15-06-2018 Date of previous issue :19-05-2017 Version : 2.02 9/12

JCB Brake Fluid

# SECTION 12: Ecological information

#### 12.5 Results of PBT and vPvB assessment

**PBT** : Not applicable. : Not applicable. **vPvB** 

12.6 Other adverse effects : No known significant effects or critical hazards.

## **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

## 13.1 Waste treatment methods

## **Product**

Methods of disposal

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** 

**Packaging** 

Methods of disposal

: The classification of the product may meet the criteria for a hazardous waste.

: The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions** 

This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.

user

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code : Not available.

Date of issue/Date of revision :15-06-2018 :19-05-2017 Version : 2.02 10/12 Date of previous issue

JCB Brake Fluid

## **SECTION 15: Regulatory information**

## 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

#### Annex XIV - List of substances subject to authorization

**Annex XIV** 

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions : Not applicable.

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

**Other EU regulations** 

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

**Seveso Directive** 

This product is not controlled under the Seveso Directive.

Hazard class for water : 17

(WGK)

VOC content : Exempt.

**International regulations** 

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

**Stockholm Convention on Persistent Organic Pollutants** 

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals** 

Not listed.

**Inventory list** 

Australia : All components are listed or exempted.

Canada : All components are listed or exempted.

China : All components are listed or exempted.

Europe : All components are listed or exempted.

Japan : Japan inventory (ENCS): All components are listed or exempted.

Japan inventory (ISHL): All components are listed or exempted.

Malaysia : Not determined.

New Zealand: All components are listed or exempted.Philippines: All components are listed or exempted.Republic of Korea: All components are listed or exempted.Taiwan: All components are listed or exempted.

Thailand : Not determined.

Date of issue/Date of revision :15-06-2018 Date of previous issue :19-05-2017 Version :2.02 11/12

# Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830

JCB Brake Fluid

## **SECTION 15: Regulatory information**

Turkey : All components are listed or exempted.
United States : All components are listed or exempted.

Viet Nam : Not determined.

15.2 Chemical Safety Assessment

Chemical Safety Assessments for all substances in this product are either Complete or Not applicable.

## **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate

 $\label{eq:clp} {\sf CLP = Classification, Labelling and Packaging Regulation (EC) No.}$ 

1272/2008]

DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

vPvB = Very Persistent and Very Bioaccumulative

## Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Eye Irrit. 2, H319	Calculation method

## Full text of abbreviated H statements

H318	Causes serious eye damage.
H319	Causes serious eye irritation.

## Full text of classifications [CLP/GHS]

Eye Dam. 1, H318	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
Eye Irrit. 2, H319	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2

**Training advice** : Ensure operatives are trained to minimise exposures.

Date of printing : 15-06-2018

Date of issue/ Date of : 15-06-2018

revision

Date of previous issue : 19-05-2017

Version : 2.02

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Date of issue/Date of revision :15-06-2018 Date of previous issue :19-05-2017 Version : 2.02 12/12

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200



## JCB HP Gear Oil Plus

Version Revision Date: SDS Number: Print Date: 10/30/2021

1.1 10/29/2021 800010049879 Date of last issue: 03/29/2021

### **SECTION 1. IDENTIFICATION**

Product name : JCB HP Gear Oil Plus

Product code : 001J2615

Manufacturer or supplier's details

Manufacturer/Supplier: JCB Service

World Parts Centre Waterloo Park Beamhurst Uttoxeter ST14 5PA

Telephone: +44 1889 590312 (Mon to Fri 9.00am to 4.00pm UK time)

E-mail: product-department@jcb.com (Mon to Fri 9.00am to 4.00pm UK time)

**Emergency telephone number** 

Telephone number: +44 1865 407333 - English language only (24/7)

+1 202 464 2554 - English language only specific to US and Canada (24/7)

Recommended use of the chemical and restrictions on use

Recommended use : Transmission oil.

## **SECTION 2. HAZARDS IDENTIFICATION**

# GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Based on available data this substance / mixture does not meet the classification criteria.

**GHS** label elements

Hazard pictograms : No Hazard Symbol required

Signal word : No signal word

Hazard statements : PHYSICAL HAZARDS:

Not classified as a physical hazard under GHS criteria.

HEALTH HAZARDS:

Not classified as a health hazard under GHS criteria.

**ENVIRONMENTAL HAZARDS:** 

Not classified as an environmental hazard under GHS criteria.

Precautionary statements : Prevention:

No precautionary phrases.

Response:

No precautionary phrases.

Storage:

No precautionary phrases.

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

## **JCB HP Gear Oil Plus**

Version Revision Date: SDS Number: Print Date: 10/30/2021

1.1 10/29/2021 800010049879 Date of last issue: 03/29/2021

## Disposal:

No precautionary phrases.

#### Other hazards which do not result in classification

Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.

Used oil may contain harmful impurities.

Not classified as flammable but will burn.

The classification of this material is based on OSHA HCS 2012 criteria.

Under normal conditions of use or in a foreseeable emergency, this product does not meet the definition of a hazardous chemical when evaluated according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

## **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

Chemical nature : Highly refined mineral oils and additives.

The highly refined mineral oil contains <3% (w/w) DMSO-

extract, according to IP346.

\* contains one or more of the following CAS-numbers: 64742-53-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-65-0, 68037-01-4, 72623-86-0, 72623-87-1, 8042-47-5, 848301-69-9, 68649-12-7, 151006-60-9, 163149-28-8, 64741-88-4.

#### **Hazardous components**

Chemical name	Synonyms	CAS-No.	Concentration (% w/w)
Interchangeable low viscosity base oil (<20,5 cSt @40°C) *		Not Assigned	0 - 90
Zinc dialkyldithio- phosphate	zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosp hate)	4259-15-8	1 - 2.49
Borated ester		Not Assigned	0.1 - 0.9
Triphenyl phosphite	triphenyl phos- phite	101-02-0	0 - < 0.1

#### **SECTION 4. FIRST-AID MEASURES**

In case of skin contact : Remove contaminated clothing. Flush exposed area with wa-

ter and follow by washing with soap if available. If persistent irritation occurs, obtain medical attention.

In case of eye contact : Flush eye with copious quantities of water.

Remove contact lenses, if present and easy to do. Continue

rinsing.

If persistent irritation occurs, obtain medical attention.

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

## JCB HP Gear Oil Plus

Version Revision Date: SDS Number: Print Date: 10/30/2021
1.1 10/29/2021 800010049879 Date of last issue: 03/29/2021

If swallowed : In general no treatment is necessary unless large quantities

are swallowed, however, get medical advice.

Most important symptoms and effects, both acute and

delayed

Oil acne/folliculitis signs and symptoms may include formation of black pustules and spots on the skin of exposed areas. Ingestion may result in nausea, vomiting and/or diarrhoea.

Protection of first-aiders : When administering first aid, ensure that you are wearing the

appropriate personal protective equipment according to the

incident, injury and surroundings.

Indication of any immediate medical attention and special

treatment needed

Treat symptomatically.

#### **SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media : Foam, water spray or fog. Dry chemical powder, carbon diox-

ide, sand or earth may be used for small fires only.

Unsuitable extinguishing

media

Do not use water in a jet.

Specific hazards during fire-

fighting

Hazardous combustion products may include:

A complex mixture of airborne solid and liquid particulates and

gases (smoke).

Carbon monoxide may be evolved if incomplete combustion

occurs

Unidentified organic and inorganic compounds.

Specific extinguishing meth-

ods

Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Special protective equipment:

for firefighters

Proper protective equipment including chemical resistant

gloves are to be worn; chemical resistant suit is indicated if large contact with spilled product is expected. Self-Contained Breathing Apparatus must be worn when approaching a fire in a confined space. Select fire fighter's clothing approved to

relevant Standards (e.g. Europe: EN469).

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emer-

gency procedures

Personal precautions, protec- : Avoid contact with skin and eyes.

Environmental precautions : Use appropriate containment to avoid environmental contami-

nation. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.

Local authorities should be advised if significant spillages

cannot be contained.

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

## JCB HP Gear Oil Plus

Version Revision Date: SDS Number: Print Date: 10/30/2021

1.1 10/29/2021 800010049879 Date of last issue: 03/29/2021

Methods and materials for containment and cleaning up

Slippery when spilt. Avoid accidents, clean up immediately. Prevent from spreading by making a barrier with sand, earth

or other containment material.

Reclaim liquid directly or in an absorbent.

Soak up residue with an absorbent such as clay, sand or other

suitable material and dispose of properly.

Additional advice : For guidance on selection of personal protective equipment

see Section 8 of this Safety Data Sheet.

For guidance on disposal of spilled material see Section 13 of

this Safety Data Sheet.

#### **SECTION 7. HANDLING AND STORAGE**

Technical measures : Use local exhaust ventilation if there is risk of inhalation of

vapours, mists or aerosols.

Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this

material.

Advice on safe handling : Avoid prolonged or repeated contact with skin.

Avoid inhaling vapour and/or mists.

When handling product in drums, safety footwear should be worn and proper handling equipment should be used. Properly dispose of any contaminated rags or cleaning mate-

rials in order to prevent fires.

Avoidance of contact : Strong oxidising agents.

Product Transfer : Proper grounding and bonding procedures should be used

during all bulk transfer operations to avoid static accumulation.

Further information on stor-

age stability

Keep container tightly closed and in a cool, well-ventilated

place.

Use properly labeled and closable containers.

Store at ambient temperature.

Packaging material : Suitable material: For containers or container linings, use mild

steel or high density polyethylene.

Unsuitable material: PVC.

Container Advice : Polyethylene containers should not be exposed to high tem-

peratures because of possible risk of distortion.

## **SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**

### Components with workplace control parameters

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

## **JCB HP Gear Oil Plus**

 Version
 Revision Date:
 SDS Number:
 Print Date: 10/30/2021

 1.1
 10/29/2021
 800010049879
 Date of last issue: 03/29/2021

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Oil mist, mineral	Not Assigned	TWA (Mist)	5 mg/m3	OSHA Z-1
Oil mist, mineral		TWA (Inhal-	5 mg/m3	ACGIH
		able particu-		
		late matter)		

## **Biological occupational exposure limits**

No biological limit allocated.

#### **Monitoring Methods**

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate.

Validated exposure measurement methods should be applied by a competent person and samples analysed by an accredited laboratory.

Examples of sources of recommended exposure measurement methods are given below or contact the supplier. Further national methods may be available.

National Institute of Occupational Safety and Health (NIOSH), USA: Manual of Analytical Methods http://www.cdc.gov/niosh/

Occupational Safety and Health Administration (OSHA), USA: Sampling and Analytical Methods http://www.osha.gov/

Health and Safety Executive (HSE), UK: Methods for the Determination of Hazardous Substances http://www.hse.gov.uk/

Institut für Arbeitsschutz Deutschen Gesetzlichen Unfallversicherung (IFA) , Germany http://www.dguv.de/inhalt/index.jsp

L'Institut National de Recherche et de Securité, (INRS), France http://www.inrs.fr/accueil

## **Engineering measures**

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include:

Adequate ventilation to control airborne concentrations.

Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.

## General Information:

Define procedures for safe handling and maintenance of controls.

Educate and train workers in the hazards and control measures relevant to normal activities associated with this product.

Ensure appropriate selection, testing and maintenance of equipment used to control exposure, e.g. personal protective equipment, local exhaust ventilation.

Drain down system prior to equipment break-in or maintenance.

Retain drain downs in sealed storage pending disposal or subsequent recycle.

Always observe good personal hygiene measures, such as

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

## JCB HP Gear Oil Plus

Version Revision Date: SDS Number: Print Date: 10/30/2021

1.1 10/29/2021 800010049879 Date of last issue: 03/29/2021

washing hands after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned.

Practice good housekeeping.

## Personal protective equipment

Respiratory protection

No respiratory protection is ordinarily required under normal conditions of use.

In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material. If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter.

priate combination of mask and filter.

Select a filter suitable for the combination of organic gases and vapours and particles [Type A/Type P boiling point

>65°C (149°F)].

Hand protection Remarks

Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection. PVC, neoprene or nitrile rubber gloves Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended. For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified. For short-term/splash protection we recommend the same but recognize that suitable gloves offering this level of protection may not be available and in this case a lower breakthrough time maybe acceptable so long as appropriate maintenance and replacement regimes are followed. Glove thickness is not a good predictor of glove resistance to a chemical as it is dependent on the exact composition of the glove material. Glove thickness should be typically greater than 0.35 mm depending on the glove make and model.

Eye protection : If material is handled such that it could be splashed into eyes,

protective eyewear is recommended.

Skin and body protection : Skin protection is not ordinarily required beyond standard

work clothes.

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

## **JCB HP Gear Oil Plus**

Version Revision Date: SDS Number: Print Date: 10/30/2021

1.1 10/29/2021 800010049879 Date of last issue: 03/29/2021

It is good practice to wear chemical resistant gloves.

Protective measures : Personal protective equipment (PPE) should meet recom-

mended national standards. Check with PPE suppliers.

Thermal hazards : Not applicable

## **Environmental exposure controls**

General advice : Take appropriate measures to fulfill the requirements of rele-

vant environmental protection legislation. Avoid contamination of the environment by following advice given in Section 6. If necessary, prevent undissolved material from being discharged to waste water. Waste water should be treated in a municipal or industrial waste water treatment plant before

discharge to surface water.

Local guidelines on emission limits for volatile substances must be observed for the discharge of exhaust air containing

vapour.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid

Colour : amber

Odour : Data not available

Odour Threshold : Data not available

pH : Not applicable

pour point :  $-36 \,^{\circ}\text{C} / -33 \,^{\circ}\text{F}$ 

Method: ASTM D97

Melting / freezing point Data not available

Initial boiling point and boiling :

range

> 280 °C / 536 °F estimated value(s)

Flash point : 202 °C / 396 °F

Method: ASTM D93 (PMCC)

Evaporation rate : Data not available

Flammability (solid, gas) : Data not available

Upper explosion limit / upper

flammability limit

Typical 10 %(V)

Lower explosion limit / Lower

flammability limit

Typical 1 %(V)

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

## JCB HP Gear Oil Plus

Version Revision Date: SDS Number: Print Date: 10/30/2021

1.1 10/29/2021 800010049879 Date of last issue: 03/29/2021

Vapour pressure : < 0.5 Pa (20 °C / 68 °F)

estimated value(s)

Relative vapour density : > 1

estimated value(s)

Relative density : 0.880 (15.0 °C / 59.0 °F)

Density : 880 kg/m3 (15.0 °C / 59.0 °F)

Method: ASTM D1298

Solubility(ies)

Water solubility : negligible

Solubility in other solvents : Data not available

Partition coefficient: n-

octanol/water

log Pow: > 6

(based on information on similar products)

Auto-ignition temperature : > 320 °C / 608 °F

Decomposition temperature : Data not available

Viscosity

Viscosity, dynamic : Data not available

Viscosity, kinematic : 10.3 mm2/s (100 °C / 212 °F)

Method: ASTM D445

82.8 mm2/s (40.0 °C / 104.0 °F)

Method: ASTM D445

Explosive properties : Not classified

Oxidizing properties : Data not available

Conductivity : This material is not expected to be a static accumulator.

#### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : The product does not pose any further reactivity hazards in

addition to those listed in the following sub-paragraph.

Chemical stability : Stable.

Possibility of hazardous reac- :

tions

: Reacts with strong oxidising agents.

Conditions to avoid : Extremes of temperature and direct sunlight.

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

## **JCB HP Gear Oil Plus**

Version Revision Date: SDS Number: Print Date: 10/30/2021

1.1 10/29/2021 800010049879 Date of last issue: 03/29/2021

Incompatible materials : Strong oxidising agents.

Hazardous decomposition : No

products

No decomposition if stored and applied as directed.

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

Basis for assessment : Information given is based on data on the components and

the toxicology of similar products. Unless indicated otherwise, the data presented is representative of the product as a

whole, rather than for individual component(s).

## Information on likely routes of exposure

Skin and eye contact are the primary routes of exposure although exposure may occur following accidental ingestion.

## **Acute toxicity**

## **Product:**

Acute oral toxicity : LD50 (rat): > 5,000 mg/kg

Remarks: Low toxicity:

Based on available data, the classification criteria are not met.

Acute inhalation toxicity : Remarks: Based on available data, the classification criteria

are not met.

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

Remarks: Low toxicity:

Based on available data, the classification criteria are not met.

#### Skin corrosion/irritation

#### **Product:**

Remarks: Slightly irritating to skin., Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis., Based on available data, the classification criteria are not met.

## Serious eye damage/eye irritation

#### **Product:**

Remarks: Slightly irritating to the eye., Based on available data, the classification criteria are not met.

## **Components:**

## Zinc dialkyldithiophosphate:

Remarks: Based on available data, the classification criteria are not met.

#### Respiratory or skin sensitisation

## **Product:**

Remarks: Not a skin sensitiser.

Based on available data, the classification criteria are not met.

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

## JCB HP Gear Oil Plus

Version Revision Date: SDS Number: Print Date: 10/30/2021

1.1 10/29/2021 800010049879 Date of last issue: 03/29/2021

## **Components:**

#### **Borated ester:**

Remarks: May cause an allergic skin reaction in sensitive individuals.

Remarks: Classified Skin Sensitiser Category 1B.

## **Triphenyl phosphite:**

Remarks: May cause an allergic skin reaction in sensitive individuals.

Remarks: Classified Skin Sensitiser Category 1B.

## Germ cell mutagenicity

## **Product:**

: Remarks: Non mutagenic, Based on available data, the classification criteria are not met.

## Carcinogenicity

#### **Product:**

Remarks: Not a carcinogen., Based on available data, the classification criteria are not met.

Remarks: Product contains mineral oils of types shown to be non-carcinogenic in animal skin-painting studies., Highly refined mineral oils are not classified as carcinogenic by the International Agency for Research on Cancer (IARC).

IARC No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

**OSHA**No component of this product present at levels greater than or

equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

#### Reproductive toxicity

#### **Product:**

Remarks: Not a developmental toxicant., Does not impair fertility., Based on available data, the classification criteria are

not met.

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

## JCB HP Gear Oil Plus

Version Revision Date: SDS Number: Print Date: 10/30/2021

1.1 10/29/2021 800010049879 Date of last issue: 03/29/2021

#### STOT - single exposure

#### **Product:**

Remarks: Based on available data, the classification criteria are not met.

#### STOT - repeated exposure

### **Product:**

Remarks: Based on available data, the classification criteria are not met.

## **Aspiration toxicity**

#### **Product:**

Not an aspiration hazard.

#### **Further information**

#### **Product:**

Remarks: Used oils may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and they may present risks to health and the environment on disposal., ALL used oil should be handled with caution and skin contact avoided as far as possible.

Remarks: Slightly irritating to respiratory system.

#### **SECTION 12. ECOLOGICAL INFORMATION**

Basis for assessment : Ecotoxicological data have not been determined specifically

for this product.

Information given is based on a knowledge of the components

and the ecotoxicology of similar products.

Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s).(LL/EL/IL50 expressed as the nominal amount of

product required to prepare aqueous test extract).

## **Ecotoxicity**

## **Product:**

Toxicity to fish (Acute toxici-

ty)

Remarks: Based on available data, the classification criteria

are not met.

Practically non toxic: LL/EL/IL50 > 100 mg/l

Toxicity to daphnia and other : aquatic invertebrates (Acute

toxicity)

Remarks: Based on available data, the classification criteria

are not met.

Practically non toxic: LL/EL/IL50 > 100 mg/l

Toxicity to algae (Acute tox-

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

## **JCB HP Gear Oil Plus**

Version Revision Date: SDS Number: Print Date: 10/30/2021

1.1 10/29/2021 800010049879 Date of last issue: 03/29/2021

icity) Remarks: Based on available data, the classification criteria

are not met.

Practically non toxic: LL/EL/IL50 > 100 mg/l

Toxicity to fish (Chronic tox-

icity)

Remarks: Based on available data, the classification criteria

are not met.

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

Remarks: Based on available data, the classification criteria

are not met.

Toxicity to microorganisms

(Acute toxicity)

Remarks: Based on available data, the classification criteria

are not met.

## **Components:**

## Triphenyl phosphite:

M-Factor (Acute aquatic tox- :

icity)

1

M-Factor (Chronic aquatic

toxicity)

: 1

#### Persistence and degradability

## **Product:**

Biodegradability : Remarks: Not readily biodegradable.

Major constituents are inherently biodegradable, but contains

components that may persist in the environment.

Persistent per IMO criteria.

International Oil Pollution Compensation (IOPC) Fund definition: "A non-persistent oil is oil, which, at the time of shipment, consists of hydrocarbon fractions, (a) at least 50% of which, by volume, distills at a temperature of 340°C (645°F) and (b) at least 95% of which, by volume, distils at a temperature of 370°C (700°F) when tested by the ASTM Method D-86/78 or

any subsequent revision thereof."

## **Bioaccumulative potential**

**Product:** 

Bioaccumulation : Remarks: Contains components with the potential to bioac-

cumulate.

## Mobility in soil

**Product:** 

Mobility : Remarks: Liquid under most environmental conditions.

If it enters soil, it will adsorb to soil particles and will not be

mobile.

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

## JCB HP Gear Oil Plus

Version Revision Date: 1.1 10/29/2021

SDS Number: 800010049879

Print Date: 10/30/2021 Date of last issue: 03/29/2021

Remarks: Floats on water.

#### Other adverse effects

## **Product:**

Additional ecological information

Does not have ozone depletion potential, photochemical ozone creation potential or global warming potential.

Product is a mixture of non-volatile components, which will not be released to air in any significant quantities under normal

conditions of use.

Poorly soluble mixture.

Causes physical fouling of aquatic organisms.

Mineral oil does not cause chronic toxicity to aquatic organ-

isms at concentrations less than 1 mg/l.

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

#### **Disposal methods**

Waste from residues

Recover or recycle if possible.

It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal meth-

ods in compliance with applicable regulations.

Waste product should not be allowed to contaminate soil or ground water, or be disposed of into the environment. Do not dispose into the environment, in drains or in water

courses

Do not dispose of tank water bottoms by allowing them to drain into the ground. This will result in soil and groundwater contamination.

Waste arising from a spillage or tank cleaning should be disposed of in accordance with prevailing regulations, preferably to a recognised collector or contractor. The competence of the collector or contractor should be established beforehand.

MARPOL - see International Convention for the Prevention of Pollution from Ships (MARPOL 73/78) which provides technical aspects at controlling pollutions from ships.

Contaminated packaging

Dispose in accordance with prevailing regulations, preferably to a recognized collector or contractor. The competence of the collector or contractor should be established beforehand. Disposal should be in accordance with applicable regional, national, and local laws and regulations.

## Local legislation

Remarks

Disposal should be in accordance with applicable regional, national, and local laws and regulations.

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

## **JCB HP Gear Oil Plus**

Version Revision Date: SDS Number: Print Date: 10/30/2021

1.1 10/29/2021 800010049879 Date of last issue: 03/29/2021

#### **SECTION 14. TRANSPORT INFORMATION**

## **National Regulations**

#### **US Department of Transportation Classification (49 CFR Parts 171-180)**

Not regulated as a dangerous good

## **International Regulations**

#### **IATA-DGR**

Not regulated as a dangerous good

#### **IMDG-Code**

Not regulated as a dangerous good

## Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied. MARPOL Annex 1 rules apply for bulk shipments by sea.

#### Special precautions for user

Remarks : Special Precautions: Refer to Section 7, Handling & Storage,

for special precautions which a user needs to be aware of or

needs to comply with in connection with transport.

#### **SECTION 15. REGULATORY INFORMATION**

## **EPCRA - Emergency Planning and Community Right-to-Know Act**

\*: This material does not contain any components with a CERCLA RQ., Shell classifies this material as an "oil" under the CERCLA Petroleum Exclusion, therefore releases to the environment are not reportable under CERCLA.

## SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

## SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 313 : The following components are subject to reporting levels es-

tablished by SARA Title III, Section 313:

Zinc dialkyldithiophos- 4259-15-8 >= 1 - < 5 %

phate

#### **Clean Water Act**

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

#### **US State Regulations**

## Pennsylvania Right To Know

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

## JCB HP Gear Oil Plus

Revision Date: SDS Number: Print Date: 10/30/2021 10/29/2021 800010049879 Date of last issue: 03/29/2021 1.1

> Distillates (petroleum), hydrotreated heavy paraffinic 64742-54-7 Distillates (petroleum), hydrotreated light naphthenic 64742-53-6 Distillates (petroleum), solvent-dewaxed heavy paraffinic 64742-65-0 Zinc dialkyldithiophosphate 4259-15-8 Distillates (petroleum), hydrotreated light paraffinic 64742-55-8 Distillates (petroleum), hydrotreated light 64742-47-8

#### California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

#### California List of Hazardous Substances

Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0
Zinc dialkyldithiophosphate	4259-15-8
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8

## **California Permissible Exposure Limits for Chemical Contaminants**

Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8

#### Other regulations:

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

### The components of this product are reported in the following inventories:

: Not established.

REACH : All components listed or polymer exempt.

**TSCA** : Not established. DSL

## **SECTION 16. OTHER INFORMATION**

## **Further information**

NFPA Rating (Health, Fire, Reac- 0, 1, 0

tivity)

#### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

OSHA Z-1 USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-

its for Air Contaminants

ACGIH / TWA 8-hour, time-weighted average OSHA Z-1 / TWA 8-hour time weighted average

: The standard abbreviations and acronyms used in this docu-Abbreviations and Acronyms

ment can be looked up in reference literature (e.g. scientific

dictionaries) and/or websites.

ACGIH = American Conference of Governmental Industrial

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

## JCB HP Gear Oil Plus

 Version
 Revision Date:
 SDS Number:
 Print Date: 10/30/2021

 1.1
 10/29/2021
 800010049879
 Date of last issue: 03/29/2021

Hygienists

ADR = European Agreement concerning the International

Carriage of Dangerous Goods by Road

AICS = Australian Inventory of Chemical Substances ASTM = American Society for Testing and Materials

BEL = Biological exposure limits

BTEX = Benzene, Toluene, Ethylbenzene, Xylenes

CAS = Chemical Abstracts Service

CEFIC = European Chemical Industry Council

CLP = Classification Packaging and Labelling

COC = Cleveland Open-Cup

DIN = Deutsches Institut fur Normung

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

DSL = Canada Domestic Substance List

EC = European Commission

EC50 = Effective Concentration fifty

ECETOC = European Center on Ecotoxicology and Toxicology Of Chemicals

ECHA = European Chemicals Agency

EINECS = The European Inventory of Existing Commercial

**Chemical Substances** 

EL50 = Effective Loading fifty

ENCS = Japanese Existing and New Chemical Substances Inventory

EWC = European Waste Code

GHS = Globally Harmonised System of Classification and Labelling of Chemicals

IARC = International Agency for Research on Cancer

IATA = International Air Transport Association

IC50 = Inhibitory Concentration fifty

IL50 = Inhibitory Level fifty

IMDG = International Maritime Dangerous Goods

INV = Chinese Chemicals Inventory

IP346 = Institute of Petroleum test method N° 346 for the determination of polycyclic aromatics DMSO-extractables

KECI = Korea Existing Chemicals Inventory

LC50 = Lethal Concentration fifty

LD50 = Lethal Dose fifty per cent.

LL/EL/IL = Lethal Loading/Effective Loading/Inhibitory loading

LL50 = Lethal Loading fifty

MARPOL = International Convention for the Prevention of Pollution From Ships

NOEC/NOEL = No Observed Effect Concentration / No Ob-

served Effect Level
OE HPV = Occupational Exposure - High Production Volume

PBT = Persistent, Bioaccumulative and Toxic
PICCS = Philippine Inventory of Chemicals and Chemical

Substances

PNEC = Predicted No Effect Concentration

REACH = Registration Evaluation And Authorisation Of Chemicals

RID = Regulations Relating to International Carriage of Dan-

gerous Goods by Rail

SKIN\_DES = Skin Designation

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

## **JCB HP Gear Oil Plus**

Version Revision Date: SDS Number: Print Date: 10/30/2021

1.1 10/29/2021 800010049879 Date of last issue: 03/29/2021

STEL = Short term exposure limit TRA = Targeted Risk Assessment

TSCA = US Toxic Substances Control Act

TWA = Time-Weighted Average

vPvB = very Persistent and very Bioaccumulative

A vertical bar (|) in the left margin indicates an amendment from the previous version.

Sources of key data used to compile the Safety Data

Sheet

The quoted data are from, but not limited to, one or more sources of information (e.g. toxicological data from Shell Health Services, material suppliers' data, CONCAWE, EU

IUCLID date base, EC 1272 regulation, etc).

Revision Date : 10/29/2021

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / EN

# **Safety Data Sheet**

According to OSHA HCS 2012 (29 CFR 1910.1200)

## **SECTION 1: Identification**

Product Identifier: John Deere Hy-Gard and Hy-Gard LV Transmission and

Hvdraulic Fluid

Other means of identification: John Deere Hy-Gard Transmission and Hydraulic Fluid

John Deere Hy-Gard LV Transmission and Hydraulic Fluid

SDS Number: 775485

Relevant identified uses: Tractor Hydraulic Fluid

Uses Advised Against: All others

24 Hour Emergency Phone Number: CHEMTREC 800-424-9300 (24 Hours)

CANUTEC 613-996-6666

CHEMTREC Mexico 01-800-681-9531

Manufacturer/Supplier: SDS Information: Customer Service:

Phillips 66 Lubricants Phone: 800-762-0942 U.S.: 800-368-7128 or International: 1-832-765-2500

P.O. Box 4428 Email: SDS@P66.com Technical Information: 1-877-445-9198

Houston, TX 77210 URL: www.Phillips66.com

## **SECTION 2: Hazard identification**

Classified Hazards
This material is not hazardous under the criteria of the Federal OSHA Hazard

None Known

Communication Standard 29CFR 1910.1200.

#### **Label Elements**

No classified hazards

## SECTION 3: Composition/information on ingredients

Chemical Name	CASRN	Concentration <sup>1</sup>
Distillates, petroleum, hydrotreated heavy paraffinic	64742-54-7	<90
Non-Hazardous Materials	VARIOUS	<15

<sup>&</sup>lt;sup>1</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

## **SECTION 4: First aid measures**

Eye Contact: If irritation or redness develops from exposure, flush eyes with clean water. If symptoms persist, seek medical attention.

**Skin Contact:** Remove contaminated shoes and clothing and cleanse affected area(s) thoroughly by washing with mild soap and water or a waterless hand cleaner. If irritation or redness develops and persists, seek medical attention. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician. (see Note to Physician)

**Inhalation (Breathing):** First aid is not normally required. If breathing difficulties develop, move victim away from source of exposure and into fresh air in a position comfortable for breathing. Seek immediate medical attention.

**Ingestion (Swallowing):** First aid is not normally required; however, if swallowed and symptoms develop, seek medical attention.

**Most important symptoms and effects, both acute and delayed:** Inhalation of oil mists or vapors generated at elevated temperatures may cause respiratory irritation. Accidental ingestion can result in minor irritation of the digestive tract, nausea and diarrhea. Dry skin and possible irritation with repeated or prolonged exposure.

775485 - John Deere Hy-Gard and Hy-Gard LV Transmission and Hydraulic Fluid Page 1/7

Status: FINAL

Date of Issue: 05-Nov-2014

Date of Issue: 05-Nov-2014 Status: FINAL

**Notes to Physician:** Acute aspirations of large amounts of oil-laden material may produce a serious aspiration pneumonia. Patients who aspirate these oils should be followed for the development of long-term sequelae. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary abnormalities.

When using high-pressure equipment, injection of product under the skin can occur. In this case, the casualty should be sent immediately to the hospital. Do not wait for symptoms to develop. High-pressure hydrocarbon injection injuries may produce substantial necrosis of underlying tissue despite an innocuous appearing external wound. These injuries often require extensive emergency surgical debridement and all injuries should be evaluated by a specialist in order to assess the extent of injury. Early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

## SECTION 5: Firefighting measures

#### NFPA 704 Hazard Class

Health: 0 Flammability: 1 Instability: 0



- 0 (Minimal)
- 1 (Slight)
- 2 (Moderate)

Page 2/7

- 3 (Serious)
- 4 (Severe)

**Extinguishing Media:** Dry chemical, carbon dioxide, foam, or water spray is recommended. Water or foam may cause frothing of materials heated above 212°F / 100°C. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.

#### Specific hazards arising from the chemical

**Unusual Fire & Explosion Hazards:** This material may burn, but will not ignite readily. If container is not properly cooled, it can rupture in the heat of a fire.

**Hazardous Combustion Products:** Combustion may yield smoke, carbon monoxide, and other products of incomplete combustion. Oxides of sulfur, nitrogen or phosphorus may also be formed.

**Special protective actions for firefighters:** For fires beyond the initial stage, emergency responders in the immediate hazard area should wear protective clothing. When the potential chemical hazard is unknown, in enclosed or confined spaces, a self contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8).

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Cool equipment exposed to fire with water, if it can be done safely. Avoid spreading burning liquid with water used for cooling purposes.

See Section 9 for Flammable Properties including Flash Point and Flammable (Explosive) Limits

## SECTION 6: Accidental release measures

**Personal precautions, protective equipment and emergency procedures:** This material may burn, but will not ignite readily. Keep all sources of ignition away from spill/release. Stay upwind and away from spill/release. Avoid direct contact with material. For large spillages, notify persons down wind of the spill/release, isolate immediate hazard area and keep unauthorized personnel out. Wear appropriate protective equipment, including respiratory protection, as conditions warrant (see Section 8). See Sections 2 and 7 for additional information on hazards and precautionary measures.

**Environmental Precautions:** Stop and contain spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems, and natural waterways. Use water sparingly to minimize environmental contamination and reduce disposal requirements. If spill occurs on water notify appropriate authorities and advise shipping of any hazard. Spills into or upon navigable waters, the contiguous zone, or adjoining shorelines that cause a sheen or discoloration on the surface of the water, may require notification of the National Response Center (phone number 800-424-8802).

\_\_\_\_\_\_

Page 3/7

Status: FINAL

**Methods and material for containment and cleaning up:** Notify relevant authorities in accordance with all applicable regulations. Immediate cleanup of any spill is recommended. Dike far ahead of spill for later recovery or disposal. Absorb spill with inert material such as sand or vermiculite, and place in suitable container for disposal. If spilled on water remove with appropriate methods (e.g. skimming, booms or absorbents). In case of soil contamination, remove contaminated soil for remediation or disposal, in accordance with local regulations.

Recommended measures are based on the most likely spillage scenarios for this material; however local conditions and regulations may influence or limit the choice of appropriate actions to be taken. See Section 13 for information on appropriate disposal.

## **SECTION 7: Handling and storage**

**Precautions for safe handling:** Keep away from flames and hot surfaces. Wash thoroughly after handling. Use good personal hygiene practices and wear appropriate personal protective equipment (see section 8). Spills will produce very slippery surfaces. High pressure injection of hydrocarbon fuels, hydraulic oils or greases under the skin may have serious consequences even though no symptoms or injury may be apparent. This can happen accidentally when using high pressure equipment such as high pressure grease guns, fuel injection apparatus or from pinhole leaks in tubing of high pressure hydraulic oil equipment.

Do not enter confined spaces such as tanks or pits without following proper entry procedures such as ASTM D-4276 and 29CFR 1910.146. Do not wear contaminated clothing or shoes.

**Conditions for safe storage:** Keep container(s) tightly closed and properly labeled. Use and store this material in cool, dry, well-ventilated area away from heat and all sources of ignition. Store only in approved containers. Keep away from any incompatible material (see Section 10). Protect container(s) against physical damage.

"Empty" containers retain residue and may be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury or death. "Empty" drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations. Before working on or in tanks which contain or have contained this material, refer to OSHA regulations, ANSI Z49.1, and other references pertaining to cleaning, repairing, welding, or other contemplated operations.

## SECTION 8: Exposure controls/personal protection

Chemical Name	ACGIH	OSHA	Other
Distillates, petroleum, hydrotreated heavy	TWA: 5mg/m <sup>3</sup>	TWA: 5mg/m <sup>3</sup>	
paraffinic	STEL: 10 mg/m <sup>3</sup>	as Oil Mist, if Generated	
	as Oil Mist, if Generated		

Note: State, local or other agencies or advisory groups may have established more stringent limits. Consult an industrial hygienist or similar professional, or your local agencies, for further information.

**Engineering controls:** If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits, additional engineering controls may be required.

**Eye/Face Protection:** The use of eye protection that meets or exceeds ANSI Z.87.1 is recommended to protect against potential eye contact, irritation, or injury. Depending on conditions of use, a face shield may be necessary.

**Skin/Hand Protection:** The use of gloves impervious to the specific material handled is advised to prevent skin contact. Users should check with manufacturers to confirm the breakthrough performance of their products. Suggested protective materials: Nitrile

**Respiratory Protection:** Where there is potential for airborne exposure above the exposure limit a NIOSH certified air purifying respirator equipped with R or P95 filters may be used.

A respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed whenever workplace conditions warrant a respirator's use. Air purifying respirators provide limited protection and cannot be used in atmospheres that exceed the maximum use concentration (as directed by regulation or the manufacturer's instructions), in oxygen deficient (less than 19.5 percent oxygen) situations, or under conditions that are immediately dangerous to life and health (IDLH).

Suggestions provided in this section for exposure control and specific types of protective equipment are based on readily available information. Users should consult with the specific manufacturer to confirm the performance of their protective equipment. Specific situations may require consultation with industrial hygiene, safety, or engineering professionals.

## **SECTION 9: Physical and chemical properties**

775485 - John Deere Hy-Gard and Hy-Gard LV Transmission and Hydraulic Fluid

Date of Issue: 05-Nov-2014 Status: FINAL

-----

Page 4/7

**Note:** Unless otherwise stated, values are determined at 20°C (68°F) and 760 mm Hg (1 atm). Data represent typical values and are not intended to be specifications.

Appearance: Amber, Transparent Flash Point: > 356 °F / > 180 °C

Physical Form: Liquid Test Method: Pensky-Martens Closed Cup (PMCC), ASTM D93, EPA 1010

Odor: Petroleum Initial Boiling Point/Range: No data

Odor Threshold: No data Vapor Pressure: <1 mm Hg

pH: Not applicable Partition Coefficient (n-octanol/water) (Kow): No data

Vapor Density (air=1): >1

Upper Explosive Limits (vol % in air): No data

Lower Explosive Limits (vol % in air): No data

Decomposition Temperature: No data

Decomposition Temperature: No data

Lower Explosive Limits (vol % in air): No data

Decomposition Temperature: No data

Evaporation Rate (nBuAc=1): No data

Specific Gravity (water=1): 0.863 - 0.878 @ 60°F (15.6°C)

Particle Size: Not applicable

Bulk Density: 7.23 - 7.31 lbs/gal

Percent Volatile: Negligible Viscosity: 7.3 - 9.3 cSt @ 100°C; 34 - 43 cSt @ 40°C

Flammability (solid, gas): Not applicable

Pour Point: -49 to -33 °F / -45 to -36 °C

Solubility in Water: Negligible

## SECTION 10: Stability and reactivity

Reactivity: Not chemically reactive.

Chemical stability: Stable under normal ambient and anticipated conditions of use.

Possibility of hazardous reactions: Hazardous reactions not anticipated.

Conditions to avoid: Extended exposure to high temperatures can cause decomposition. Avoid all possible sources of ignition.

Incompatible materials: Avoid contact with strong oxidizing agents and strong reducing agents.

Hazardous decomposition products: Not anticipated under normal conditions of use.

## SECTION 11: Toxicological information

## Information on Toxicological Effects of Substance/Mixture

#### Substance / Mixture

Acute Toxicity	Hazard	Additional Information	LC50/LD50 Data
Inhalation	Unlikely to be harmful		>5 mg/L (mist, estimated)
Dermal	Unlikely to be harmful		> 2 g/kg (estimated)
Oral	Unlikely to be harmful		> 5 g/kg (estimated)

Aspiration Hazard: Not expected to be an aspiration hazard.

Skin Corrosion/Irritation: Causes mild skin irritation. Repeated exposure may cause skin dryness or cracking.

Serious Eye Damage/Irritation: Causes mild eye irritation.

**Skin Sensitization:** No information available on the mixture, however none of the components have been classified for skin sensitization (or are below the concentration threshold for classification).

Respiratory Sensitization: No information available.

**Specific Target Organ Toxicity (Single Exposure):** No information available on the mixture, however none of the components have been classified for target organ toxicity (or are below the concentration threshold for classification).

**Specific Target Organ Toxicity (Repeated Exposure):** No information available on the mixture, however none of the components have been classified for target organ toxicity (or are below the concentration threshold for classification).

**Carcinogenicity:** No information available on the mixture, however none of the components have been classified for carcinogenicity (or are below the concentration threshold for classification).

Date of Issue: 05-Nov-2014 Status: FINAL

**Germ Cell Mutagenicity:** No information available on the mixture, however none of the components have been classified for germ cell mutagenicity (or are below the concentration threshold for classification).

Page 5/7

**Reproductive Toxicity:** No information available on the mixture, however none of the components have been classified for reproductive toxicity (or are below the concentration threshold for classification).

#### **Information on Toxicological Effects of Components**

### Distillates, petroleum, hydrotreated heavy paraffinic

Carcinogenicity: This oil has been highly refined by a variety of processes to reduce aromatics and improve performance characteristics. It meets the IP-346 criteria of less than 3 percent PAH's and is not considered a carcinogen by the International Agency for Research on Cancer.

## **SECTION 12: Ecological information**

## GHS Classification: No classified hazards

**Toxicity:** All acute aquatic toxicity studies on samples of lubricant base oils show acute toxicity values greater than 100 mg/L for invertebrates, algae and fish. These tests were carried out on water accommodated fractions and the results are consistent with the predicted aquatic toxicity of these substances based on their hydrocarbon compositions.

**Persistence and Degradability:** The hydrocarbons in this material are not readily biodegradable, but since they can be degraded by microorganisms, they are regarded as inherently biodegradable.

**Bioaccumulative Potential:** Log Kow values measured for the hydrocarbon components of this material are greater than 5.3, and therefore regarded as having the potential to bioaccumulate. In practice, metabolic processes may reduce bioconcentration.

**Mobility in Soil:** Volatilization to air is not expected to be a significant fate process due to the low vapor pressure of this material. In water, base oils will float and spread over the surface at a rate dependent upon viscosity. There will be significant removal of hydrocarbons from the water by sediment adsorption. In soil and sediment, hydrocarbon components will show low mobility with adsorption to sediments being the predominant physical process. The main fate process is expected to be slow biodegradation of the hydrocarbon constituents in soil and sediment.

Other adverse effects: None anticipated.

## SECTION 13: Disposal considerations

The generator of a waste is always responsible for making proper hazardous waste determinations and needs to consider state and local requirements in addition to federal regulations. This material, if discarded as produced, would not be a federally regulated RCRA "listed" hazardous waste and is not believed to exhibit characteristics of hazardous waste. See Sections 7 and 8 for information on handling, storage and personal protection and Section 9 for physical/chemical properties. It is possible that the material as produced contains constituents which are not required to be listed in the SDS but could affect the hazardous waste determination. Additionally, use which results in chemical or physical change of this material could subject it to regulation as a hazardous waste. This material under most intended uses would become "Used Oil" due to contamination by physical or chemical impurities. Whenever possible, Recycle used oil in accordance with applicable federal and state or local regulations. Container contents should be completely used and containers should be emptied prior to discard.

## **SECTION 14: Transport information**

#### U.S. Department of Transportation (DOT)

**Shipping Description:** Not regulated

Note: If shipped by land in a packaging having a capacity of 3,500 gallons or more, the

provisions of 49 CFR, Part 130 apply. (Contains oil)

International Maritime Dangerous Goods (IMDG)
Shipping Description:

Not regulated

Note: U.S. DOT compliance requirements may apply. See 49 CFR 171.22, 23 & 25.

775485 - John Deere Hy-Gard and Hy-Gard LV Transmission and Hydraulic Fluid

**Page 6/7** Date of Issue: 05-Nov-2014 Status: FINAL

## Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:

Not applicable

#### International Civil Aviation Org. / International Air Transport Assoc. (ICAO/IATA)

UN/ID #: Not regulated

Note: U.S. DOT compliance requirements may apply. See 49 CFR 171.22, 23 & 24.

	LTD. QTY	Passenger Aircraft	Cargo Aircraft Only
Packaging Instruction #:			
Max. Net Qty. Per Package:			

## **SECTION 15: Regulatory information**

### CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPQs (in pounds):

This material does not contain any chemicals subject to the reporting requirements of SARA 302 and 40 CFR 372.

#### CERCLA/SARA - Section 311/312 (Title III Hazard Categories)

**Acute Health Hazard:** No **Chronic Health Hazard:** No Fire Hazard: No **Pressure Hazard:** No **Reactive Hazard:** No

#### CERCLA/SARA - Section 313 and 40 CFR 372:

This material contains the following chemicals subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR 372:

Chemical Name	Concentration <sup>1</sup>	de minimis
Zinc Compound(s)	<1.5	1.0%

## **EPA (CERCLA) Reportable Quantity (in pounds):**

This material does not contain any chemicals with CERCLA Reportable Quantities.

#### **California Proposition 65:**

This material does not contain any chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm at concentrations that trigger the warning requirements of California Proposition 65.

## Canada:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the Regulations.

#### **WHMIS Hazard Class:**

none

## **National Chemical Inventories**

All components are either listed on the US TSCA Inventory, or are not regulated under TSCA.

All components are either on the DSL, or are exempt from DSL listing requirements.

#### U.S. Export Control Classification Number: EAR99

## SECTION 16: Other information

Date of Issue:	Previous Issue Date:	SDS Number:	Status:
05-Nov-2014	22-Mar-2013	775485	FINAL

## **Revised Sections or Basis for Revision:**

Composition (Section 3); Personal Protective Equipment (Section 8); Physical Properties (Section 9); Toxicological (Section 11)

775485 - John Deere Hy-Gard and Hy-Gard LV Transmission and Hydraulic Fluid **Date of Issue:** 05-Nov-2014

\_\_\_\_\_\_

Page 7/7

Status: FINAL

#### **Guide to Abbreviations:**

ACGIH = American Conference of Governmental Industrial Hygienists; CASRN = Chemical Abstracts Service Registry Number; CEILING = Ceiling Limit (15 minutes); CERCLA = The Comprehensive Environmental Response, Compensation, and Liability Act; EPA = Environmental Protection Agency; GHS = Globally Harmonized System; IARC = International Agency for Research on Cancer; INSHT = National Institute for Health and Safety at Work; IOPC = International Oil Pollution Compensation; LEL = Lower Explosive Limit; NE = Not Established; NFPA = National Fire Protection Association; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; PEL = Permissible Exposure Limit (OSHA); SARA = Superfund Amendments and Reauthorization Act; STEL = Short Term Exposure Limit (15 minutes); TLV = Threshold Limit Value (ACGIH); TWA = Time Weighted Average (8 hours); UEL = Upper Explosive Limit; WHMIS = Worker Hazardous Materials Information System (Canada)

#### Disclaimer of Expressed and implied Warranties:

The information presented in this Safety Data Sheet is based on data believed to be accurate as of the date this Safety Data Sheet was prepared. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THE INFORMATION PROVIDED ABOVE, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE. No responsibility is assumed for any damage or injury resulting from abnormal use or from any failure to adhere to recommended practices. The information provided above, and the product, are furnished on the condition that the person receiving them shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of their use. In addition, no authorization is given nor implied to practice any patented invention without a license.

## Lucas Hot Rod & Classic Car Oil SAE 10W-30



## **Section 1. Identification**

GHS product identifier : Lucas Hot Rod & Classic Car Oil SAE 10W-30

Other means of : Not available. identification

Product number :

**Identified uses** 

Engine oil.

Supplier's details

: Lucas Oil Products, Inc 302 North Sheridan Street Corona, California 92880-2067 Toll Free: (800) 342-2512 Tel: (951) 270-0154 Fax: (951) 270-1902

Website: www.LucasOil.com

**Emergency telephone** number (with hours of

operation)

: (951) 493-1149 (951) 847-5949 Markn@lucasoil.com

7:00A.M. to 5:00P.M. Monday thru Friday

# Section 2. Hazards identification

OSHA/HCS status : While this material is not considered hazardous by the OSHA Hazard Communication

Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available

for employees and other users of this product.

Classification of the substance or mixture

: Not classified.

**GHS label elements** 

Signal word : No signal word.

**Hazard statements**: No known significant effects or critical hazards.

**Precautionary statements** 

General : Read label before use. Keep out of reach of children. If medical advice is needed,

have product container or label at hand.

Prevention : Not applicable.
Response : Not applicable.
Storage : Not applicable.
Disposal : Not applicable.
Hazards not otherwise : None known.

classified



# Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Other means of : Not available.
identification

## **CAS** number/other identifiers

**CAS number** : Not applicable.

Ingredient name	%	CAS number
	0.1 - 1	68649-42-3

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

## Description of necessary first aid measures

**Eye contact**: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower

eyelids. Check for and remove any contact lenses. Get medical attention if irritation

occurs.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get

medical attention if symptoms occur.

**Skin contact** : Flush contaminated skin with plenty of water. Get medical attention if symptoms occur.

Ingestion : Wash out mouth with water. Remove victim to fresh air and keep at rest in a position

comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 No known significant effects or critical hazards.
 Ingestion
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

## Over-exposure signs/symptoms

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 Ingestion
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments** : No specific treatment.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

## See toxicological information (Section 11)





# Section 5. Fire-fighting measures

## Extinguishing media

Suitable extinguishing

media

Unsuitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

: Straight streams of water.

Specific hazards arising from the chemical

Hazardous thermal decomposition products

: No specific fire or explosion hazard.

: No specific data.

Special protective actions for fire-fighters

Special protective equipment for fire-fighters

: No special measures are required.

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

# Section 6. Accidental release measures

## Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

## Methods and materials for containment and cleaning up

**Small spill** 

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

## Precautions for safe handling

**Protective measures** 

Advice on general occupational hygiene

- : Put on appropriate personal protective equipment (see Section 8).
- : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.





# Section 7. Handling and storage

including any incompatibilities

Conditions for safe storage, : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

# Section 8. Exposure controls/personal protection

#### **Control parameters**

Occupational exposure limits

None.

Appropriate engineering controls

**Environmental exposure** controls

- Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

## Individual protection measures

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** 

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with sideshields.

**Skin protection** 

**Hand protection** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Body protection** 

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** 

: Use a properly fitted, air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.



## Section 9. Physical and chemical properties

**Appearance** 

Physical state

Color

Light brown.

Odor

Petroleum.

Odor threshold

PH

Not available.

Melting point

Not available.

Not available.

> Not available.

Flash point : Closed cup: 237.77°C (460°F)

Evaporation rate : Not available.
Flammability (solid, gas) : Not available.
Lower and upper explosive : Not available.

(flammable) limits

Vapor pressure: Not available.Vapor density: Not available.

Relative density : 0.876

Solubility : Not available.

Solubility in water : Negligible at 25°C

Partition coefficient: n- : Not available.

octanol/water

**Auto-ignition temperature** : Not available. **Decomposition temperature** : Not available.

Viscosity : Kinematic (100°C (212°F)): 0.11 cm²/s (11 cSt)

Volatility : Not available.
VOC content : Not available.

## Section 10. Stability and reactivity

**Reactivity**: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability**: The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : Excessive heat.

**Incompatible materials** : Reactive or incompatible with the following materials: strong oxidizers.

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.



## **Section 11. Toxicological information**

### Information on toxicological effects

## **Acute toxicity**

There is no data available.

### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
Zinc Alkyldithiophosphate	Eyes - Irritant	Rabbit	-	-	-

### **Sensitization**

There is no data available.

### **Carcinogenicity**

There is no data available.

### Specific target organ toxicity (single exposure)

There is no data available.

### Specific target organ toxicity (repeated exposure)

There is no data available.

### **Aspiration hazard**

There is no data available.

# Information on the likely routes of exposure

: Dermal contact. Eye contact. Inhalation. Ingestion.

## Potential acute health effects

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 No known significant effects or critical hazards.
 Ingestion
 No known significant effects or critical hazards.

## Symptoms related to the physical, chemical and toxicological characteristics

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 No known significant effects or critical hazards.
 Ingestion
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

### Delayed and immediate effects and also chronic effects from short and long term exposure

## **Short term exposure**

Potential immediate :

effects

: No known significant effects or critical hazards.

**Potential delayed effects**: No known significant effects or critical hazards.

Long term exposure

Potential immediate

effects

: No known significant effects or critical hazards.

**Potential delayed effects**: No known significant effects or critical hazards.

#### Potential chronic health effects

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.





## **Section 11. Toxicological information**

Mutagenicity: No known significant effects or critical hazards.Teratogenicity: No known significant effects or critical hazards.Developmental effects: No known significant effects or critical hazards.Fertility effects: No known significant effects or critical hazards.

## **Numerical measures of toxicity**

#### **Acute toxicity estimates**

There is no data available.

## Section 12. Ecological information

### **Toxicity**

Product/ingredient name	Result	Species	Exposure
	Acute EC50 1 to 5 mg/L	Algae	96 hours
	Acute EC50 1 to 1.5 mg/L	Crustaceans	48 hours
	Chronic LC50 1 to 5 mg/L	Fish	96 hours

#### Persistence and degradability

There is no data available.

#### **Bioaccumulative potential**

There is no data available.

## **Mobility in soil**

Soil/water partition coefficient (Koc)

: There is no data available.

Other adverse effects : No known significant effects or critical hazards.

## Section 13. Disposal considerations

### **Disposal methods**

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.



## **Section 14. Transport information**

	DOT Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Additional information	-	-	-

**AERG**: Not applicable

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

Transport in bulk according : Not available.

to Annex II of MARPOL 73/78 and the IBC Code

## Section 15. Regulatory information

U.S. Federal regulations : TSCA 8(a) PAIR: Zinc Alkyldithiophosphate

: Not listed

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8b): All components are listed or exempted.

Clean Water Act (CWA) 307: Zinc Alkyldithiophosphate

Clean Air Act Section 112

(b) Hazardous Air **Pollutants (HAPs)** 

Clean Air Act Section 602 : Not listed

**Class I Substances** 

Clean Air Act Section 602 : Not listed

**Class II Substances** 

**DEA List I Chemicals** (Precursor Chemicals) : Not listed

**DEA List II Chemicals** (Essential Chemicals)

: Not listed

**SARA 302/304** 

**Composition/information on ingredients** 

No products were found.

**SARA 304 RQ** : Not applicable.





## Section 15. Regulatory information

### **SARA 311/312**

Classification : Not applicable.

Composition/information on ingredients

Name	, ,	Fire hazard	Sudden release of pressure		(acute) health	Delayed (chronic) health hazard
Zinc Alkyldithiophosphate	0.1 - 1	No.	No.	No.	Yes.	No.

#### **SARA 313**

	Product name	CAS number	%
Form R - Reporting requirements	Zinc Alkyldithiophosphate	68649-42-3	0.1 - 1
Supplier notification	Zinc Alkyldithiophosphate	68649-42-3	0.1 - 1

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

### State regulations

Massachusetts : None of the components are listed.New York : None of the components are listed.

New Jersey : The following components are listed: Distillates (petroleum), hydrotreated heavy

paraffinic; Zinc Alkyldithiophosphate

Pennsylvania: The following components are listed: Zinc Alkyldithiophosphate

California Prop. 65

No products were found.

## Section 16. Other information

## Hazardous Material Information System (U.S.A.)

Health: 0 Flammability: 1 Physical hazards: 0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

### **National Fire Protection Association (U.S.A.)**

Health: 0 Flammability: 1 Instability: 0

Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

#### **History**

Date of issue mm/dd/yyyy : 01/15/2015 Date of previous issue : 01/15/2014

Version : 2





## Section 16. Other information

Prepared by

: KMK Regulatory Services Inc.

Key to abbreviations

: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



Page: 1 of 5

This version issued: August, 2016

## **Section 1 - Identification of The Material and Supplier**

Lucas Oil Products of Australia Pty Ltd Phone: 07 3299 6320 (office hours)

Unit 2/5-7 Meakin Rd Phone 0407 751 175 (24/7)
Meadowbrook, Qld 4131 Fax: 07 3299 7365

**Chemical nature:** Petroleum based lubricating oil.

Trade Name: Lucas Heavy Duty Oil Stabilizer

**Product Code:** 10001, 10002, 10015, 10085, 10091

Product Use: Lubricant.

Creation Date: August, 2016

This version issued: August, 2016 and is valid for 5 years from this date. Poisons Information Centre: Phone 13 1126 from anywhere in Australia

### Section 2 - Hazards Identification

## **Statement of Hazardous Nature**

This product is classified as: Not classified as hazardous according to the criteria of SWA.

Not a Dangerous Good according to Australian Dangerous Goods (ADG) Code, IATA or IMDG/IMSBC criteria.

**SUSMP Classification:** None allocated.

ADG Classification: None allocated. Not a Dangerous Good according to Australian Dangerous Goods (ADG)

Code, IATA or IMDG/IMSBC criteria. **UN Number:** None allocated

## GHS Signal word: NONE. Not hazardous.

#### **PREVENTION**

P102: Keep out of reach of children.

P262: Do not get in eyes, on skin, or on clothing.

P281: Use personal protective equipment as required.

#### **RESPONSE**

P352: Wash with plenty of soap and water.

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P370+P378: In case of fire, use carbon dioxide, dry chemical, foam, water fog.

### **STORAGE**

P403: Store in a well-ventilated place.

P402+P404: Store in a dry place. Store in a closed container.

## **DISPOSAL**

P501: If they can not be recycled, dispose of contents to an approved waste disposal plant and containers to landfill (see Section 13 of this SDS).

### **Emergency Overview**

Physical Description & Colour: Amber coloured liquid.

Odour: Characteristic odour.

Major Health Hazards: no significant risk factors have been found for this product.

### Section 3 - Composition/Information on Ingredients

Ingredients CAS No Conc,% TWA (mg/m³) STEL (mg/m³)

Lubricating oils (petroleum), C>25, hydrotreated bright stock-based

72623-83-7 >60 not set not set

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible.

The SWA TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value that may be equalled (but should not be exceeded) for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak "is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

#### SAFETY DATA SHEET

Issued by: Lucas Oil Products of Australia Pty Ltd Phone: 07 3299 6320 (office hours)



Page: 2 of 5

This version issued: August, 2016

### **Section 4 - First Aid Measures**

#### **General Information:**

You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this SDS with you when you call.

**Inhalation:** First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

**Skin Contact:** Irritation is unlikely. However, if irritation does occur, flush with lukewarm, gently flowing water for 5 minutes or until chemical is removed.

**Eye Contact:** No effects expected. If irritation does occur, flush contaminated eye(s) with lukewarm, gently flowing water for 5 minutes or until the product is removed. Obtain medical advice if irritation becomes painful or lasts more than a few minutes. Take special care if exposed person is wearing contact lenses.

**Ingestion:** If product is swallowed or gets in mouth, do NOT induce vomiting; wash mouth with water and give some water to drink. If symptoms develop, or if in doubt contact a Poisons Information Centre or a doctor.

## **Section 5 - Fire Fighting Measures**

**Fire and Explosion Hazards**: The major hazard in fires is usually inhalation of heated and toxic or oxygen deficient (or both), fire gases. There is no risk of an explosion from this product under normal circumstances if it is involved in a fire. Violent steam generation or eruption may occur upon application of direct water stream on hot liquids.

Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.

**Extinguishing Media:** In case of fire, use carbon dioxide, dry chemical, foam, water fog.

**Fire Fighting:** If a significant quantity of this product is involved in a fire, call the fire brigade. Cool closed, undamaged containers exposed to fire with water spray.

Flash point: 218°C, Closed cup

Upper Flammability Limit: No data.

Lower Flammability Limit: No data.

Autoignition temperature: No data.

Flammability Class: Not flammable (GHS); C2 combustible (AS 1940)

### **Section 6 - Accidental Release Measures**

Accidental release: Minor spills do not normally need any special cleanup measures. In the event of a major spill, prevent spillage from entering drains or water courses. As a minimum, wear overalls, goggles and gloves. Suitable materials for protective clothing include rubber, PVC. Eye/face protective equipment should comprise as a minimum, protective glasses and, preferably, goggles. If there is a significant chance that vapours or mists are likely to build up in the cleanup area, we recommend that you use a respirator. Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned below (section 8). Stop leak if safe to do so, and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. If spill is too large or if absorbent material is not available, try to create a dike to stop material spreading or going into drains or waterways. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. Recycle containers wherever possible after careful cleaning. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. This material may be suitable for approved landfill. Ensure legality of disposal by consulting regulations prior to disposal. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

## **Section 7 - Handling and Storage**

**Handling:** Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this SDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

**Storage**: Make sure that containers of this product are kept tightly closed. Keep containers dry and away from water. Make sure that the product does not come into contact with substances listed under "Incompatibilities" in Section 10. Check packaging - there may be further storage instructions on the label.

#### **SAFETY DATA SHEET**

Issued by: Lucas Oil Products of Australia Pty Ltd Phone: 07 3299 6320 (office hours)



Page: 3 of 5

This version issued: August, 2016

## **Section 8 - Exposure Controls and Personal Protection**

The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: AS/NZS 4501 set 2008, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

SWA Exposure Limits TWA (mg/m³) STEL (mg/m³)

Exposure limits have not been established by SWA for this product.

the work environment remains clean and that vapours and mists are minimised.

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems. **Ventilation:** No special ventilation requirements are normally necessary for this product. However make sure that

**Eye Protection:** Eye protection is not normally necessary when this product is being used. However, if in doubt, wear suitable protective glasses or goggles.

**Skin Protection:** The information at hand indicates that this product is not harmful and that normally no special skin protection is necessary. However, we suggest that you routinely avoid contact with all chemical products and that you wear suitable gloves (preferably elbow-length) when skin contact is likely.

**Protective Material Types:** We suggest that protective clothing be made from the following materials: rubber. **Respirator:** Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned above.

Safety deluge showers should, if practical, be provided near to where this product is being handled commercially.

## **Section 9 - Physical and Chemical Properties:**

Physical Description & colour: Amber coloured liquid.

Odour: Characteristic odour.

Boiling Point: >260°C at 100kPa

Freezing/Melting Point:

Volatiles:

No specific data. Liquid at normal temperatures.

No specific data. Expected to be low at 100°C.

Vapour Pressure:

Negligible at normal ambient temperatures.

Vapour Density: No data. **Specific Gravity:** 0.8958 Water Solubility: Negligible. :Hq No data. **Volatility:** No data. **Odour Threshold:** No data. **Evaporation Rate:** No data. Coeff Oil/water Distribution: No data

Viscosity: Kinematic (100°C: 1.1 cm<sup>2</sup>/s (110 cSt))

Autoignition temp: No data.

## Section 10 - Stability and Reactivity

**Reactivity:** This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.

**Conditions to Avoid:** Keep containers tightly closed. Containers should be kept dry.

**Incompatibilities:** oxidising agents.

**Fire Decomposition:** Combustion forms carbon dioxide, and if incomplete, carbon monoxide and possibly smoke. Water is also formed. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.

**Polymerisation:** This product will not undergo polymerisation reactions.

## Section 11 - Toxicological Information

**Local Effects:** 

**Target Organs:** There is no data to hand indicating any particular target organs.

#### SAFETY DATA SHEET



Page: 4 of 5

This version issued: August, 2016

## **Classification of Hazardous Ingredients**

Ingredient Risk Phrases

No ingredient mentioned in the HSIS Database is present in this product at hazardous concentrations.

## **Potential Health Effects**

#### Inhalation:

**Short Term Exposure:** Available data indicates that this product is not harmful. However product may be mildly

irritating, although unlikely to cause anything more than mild transient discomfort.

Long Term Exposure: No data for health effects associated with long term inhalation.

### **Skin Contact:**

**Short Term Exposure:** Available data indicates that this product is not harmful. It should present no hazards in normal use. However product may be mildly irritating, but is unlikely to cause anything more than mild discomfort which should disappear once contact ceases.

Long Term Exposure: No data for health effects associated with long term skin exposure.

### **Eye Contact:**

**Short Term Exposure:** This product may be mildly irritating to eyes, but is unlikely to cause anything more than mild discomfort which should disappear once product is removed.

**Long Term Exposure:** No data for health effects associated with long term eye exposure.

## Ingestion:

Short Term Exposure: Significant oral exposure is considered to be unlikely. However, this product may be

irritating to mucous membranes but is unlikely to cause anything more than transient discomfort.

Long Term Exposure: No data for health effects associated with long term ingestion.

## **Carcinogen Status:**

**SWA:** No significant ingredient is classified as carcinogenic by SWA. **NTP:** No significant ingredient is classified as carcinogenic by NTP. **IARC:** No significant ingredient is classified as carcinogenic by IARC.

## **Section 12 - Ecological Information**

Insufficient data to be sure of status.

## **Section 13 - Disposal Considerations**

**Disposal:** This product may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. If neither of these options is suitable in-house, consider controlled incineration, or contact a specialist waste disposal company.

### **Section 14 - Transport Information**

**UN Number:** This product is not classified as a Dangerous Good by ADG, IATA or IMDG/IMSBC criteria. No special transport conditions are necessary unless required by other regulations.

### **Section 15 - Regulatory Information**

**AICS:** This product is compliant with NICNAS regulations.

## **Section 16 - Other Information**

This SDS contains only safety-related information. For other data see product literature.

### **Acronyms:**

**ADG Code** Australian Code for the Transport of Dangerous Goods by Road and Rail (7<sup>th</sup> edition)

AICS

SWA

Australian Inventory of Chemical Substances

Safe Work Australia, formerly ASCC and NOHSC

CAS number

Chemical Abstracts Service Registry Number

Hazchem Code Emergency action code of numbers and letters that provide information to emergency

services especially firefighters

### **SAFETY DATA SHEET**

Issued by: Lucas Oil Products of Australia Pty Ltd Phone: 07 3299 6320 (office hours)

Poisons Information Centre: 13 1126 from anywhere in Australia, (0800 764 766 in New Zealand)



Page: 5 of 5

This version issued: August, 2016

IARC International Agency for Research on Cancer

NOS Not otherwise specified

NTP National Toxicology Program (USA)

R-Phrase Risk Phrase

**SUSMP** Standard for the Uniform Scheduling of Medicines & Poisons

**UN Number** United Nations Number

THIS SDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product.

This SDS is prepared in accord with the SWA document "Preparation of Safety Data Sheets for Hazardous Chemicals - Code of Practice" (Feb 2016)

Copyright © Kilford & Kilford Pty Ltd, August, 2016.

http://www.kilford.com.au/ Phone (02)9251 4532

## SAFETY DATA SHEET



Lysol Clean & Fresh Multi Surface Cleaner, All Scents

## 1. Product and company identification

Product name : Lysol Clean & Fresh Multi Surface Cleaner, All Scents

Distributed by : Reckitt Benckiser LLC.

Marrie Corporate Conton II

Morris Corporate Center IV

399 Interpace Parkway (P.O. Box 225) Parsippany, New Jersey 07054-0225

+1 973 404 2600

Emergency telephone number (Medical)

: 1-800-338-6167

Emergency telephone number (Transport)

: 1-800-424-9300 (U.S. & Canada) CHEMTREC

Outside U.S. and Canada (North America), call Chemtrec:703-527-3887

Website: : http://www.rbnainfo.com

Product use : Multipurpose Cleaner

This SDS is designed for workplace employees, emergency personnel and for other conditions and situations where there is greater potential for large-scale or prolonged exposure, in accordance with the requirements of USDOL Occupational Safety and Health Administration.

This SDS is not applicable for consumer use of our products. For consumer use, all precautionary and first aid language is provided on the product label in accordance with the applicable government regulations, and shown in Section 15 of this SDS.

**SDS #** : D0020043 v7.0

Formulation #: : 2018-074 (8092580 v1.0) Cherry Blossom & Pomegranate/Peony Blossom & White

Peach

1876-183A (8056680 v1.0) Cherry Blossom & Pomegranate

1876-183B (8056699 v2.0) Lemon Sunflower

1876-180C (8056710 v2.0) Tangerine Mango/Hawaii Sunset Essence 1876-181 (8056716 v1.0) Waterfall Splash/Mountain Fresh & Aqua Essence

1876-180A (8056727 v1.0) Lavender Orchid

**EPA ID No.** : 777-89

**UPC Code / Sizes** : PET and HDPE Bottles.

## 2. Hazards identification

Classification of the : SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B substance or mixture

**GHS label elements** 

Hazard pictograms : Not applicable.

Signal word : Warning

**Hazard statements** : Causes eye irritation.

**Precautionary statements** 

## 2. Hazards identification

General : Keep out of reach of children. If medical advice is needed, have product container or

label at hand.

**Prevention** : Wear eye or face protection. Wash hands thoroughly after handling.

: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if Response

present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

: Not applicable. **Storage** : Not applicable. Disposal

Supplemental label

elements

None known.

Hazards not otherwise

classified

Inhalation

: None known.

## 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	%	CAS number
Alcohols, C10-16, ethoxylated Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	2.5 - 5 1 - 2.5	68002-97-1 68424-85-1

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

## 4. First aid measures

### Description of necessary first aid measures

**Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower

eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention.

> : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar,

tie, belt or waistband.

: Flush contaminated skin with plenty of water. Remove contaminated clothing and **Skin contact** shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean

shoes thoroughly before reuse. Ingestion : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and

keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Code # : D0020043 SDS# : D0020043 v7.0 **Date of issue** : 19/03/2015. 2/11

## 4. First aid measures

**Eye contact** : Causes eye irritation.

Inhalation: No known significant effects or critical hazards.Skin contact: No known significant effects or critical hazards.Ingestion: May be irritating to mouth, throat and stomach.

Over-exposure signs/symptoms

**Eye contact**: Adverse symptoms may include the following:

irritation watering redness

Inhalation: No specific data.Skin contact: No specific data.Ingestion: No specific data.

### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments**: No specific treatment.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may

be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

### See toxicological information (Section 11)

## 5. Fire-fighting measures

## **Extinguishing media**

Suitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing** 

media

: None known.

Specific hazards arising from the chemical

Hazardous thermal decomposition products

: No specific data.

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

: In a fire or if heated, a pressure increase will occur and the container may burst.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

## 6. Accidental release measures

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

#### **Environmental precautions**

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

#### **Small spill**

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

#### Large spill

: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## 7. Handling and storage

### Precautions for safe handling

### **Protective measures**

: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

## including any incompatibilities

Conditions for safe storage, : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## 8. Exposure controls/personal protection

#### **Control**

### Occupational exposure limits

Not applicable.

### **Appropriate engineering** controls

**Environmental exposure** controls

- : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### Individual protection measures

Code # : D0020043 SDS# : D0020043 v7.0 **Date of issue** : 19/03/2015. 4/11

## 8. Exposure controls/personal protection

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

**Skin protection** 

**Hand protection** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

## 9. Physical and chemical properties

**Appearance** 

Physical state : Liquid. [Transparent]

Color : Violet.

Green-Yellow. Orange. Blue. Dark purple.

Odor : Characteristic.
Odor threshold : Not available.

**pH** : 8.5 to 9.5 [Conc. (% w/w): 100%][25°C]

Melting point: Not available.Boiling point: Not available.

Flash point : Closed cup: >93.3°C (>199.9°F)

Evaporation rate : Not available.
Flammability (solid, gas) : Not available.
Lower and upper explosive : Not available.

(flammable) limits

Vapor pressure : Not available.
Vapor density : Not available.

Relative density : 1.002 to 1.012 g/cm³ [25°C]

## 9. Physical and chemical properties

Solubility Partition coefficient: n-

octanol/water

**Viscosity** 

: Easily soluble in the following materials: cold water and hot water.

: Not available.

**Auto-ignition temperature Decomposition temperature**: Not available.

: Not available. : Not available.

## 10. Stability and reactivity

Reactivity

: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** 

: The product is stable.

Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid** 

: No specific data.

Incompatible materials

: Do not mix with household chemicals.

**Hazardous decomposition** products

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

## 11. Toxicological information

### Information on toxicological effects

## **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	LD50 Oral	Rat	344 mg/kg	-
*Lysol Clean & Fresh Multi Surface Cleaner, All Scents	LC50 Inhalation Vapor	Rat	>2.2 mg/l	14 days

**Conclusion/Summary** 

: Not classified Harmful \*Information is based on toxicity test result of a similar product.

#### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	Skin - Severe irritant	Rabbit	-	25 milligrams	-
*Lysol Clean & Fresh Multi Surface Cleaner, All Scents	Eyes - Cornea opacity	Rat	2	72 hours	7 days
,	Skin - Primary dermal irritation index (PDII)	Rat	0.8	-	-

## **Conclusion/Summary**

Skin

: Slightly irritating to the skin. \*Information is based on toxicity test result of a similar product.

**Eyes** 

Moderately irritating to eyes. \*Information is based on toxicity test result of a similar product.

## **Sensitization**

Code # : D0020043 SDS# : D0020043 v7.0 **Date of issue** : 19/03/2015. 6/11

## 11. Toxicological information

Product/ingredient name	Route of exposure	Species	Result
*Lysol Clean & Fresh Multi Surface Cleaner, All Scents	skin	Guinea pig	Not sensitizing

## **Conclusion/Summary**

**Skin**: Non-sensitizer to skin. \*Information is based on toxicity test result of a similar product.

Mutagenicity
Not available.

**Carcinogenicity** 

Not available.

**Reproductive toxicity** 

Not available.

**Teratogenicity** 

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

**Aspiration hazard** 

Not available.

Information on the likely

routes of exposure

: Not available.

Potential acute health effects

**Eye contact** : Causes eye irritation.

Inhalation
 No known significant effects or critical hazards.
 Skin contact
 No known significant effects or critical hazards.
 Ingestion
 May be irritating to mouth, throat and stomach.

Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact**: Adverse symptoms may include the following:

irritation watering redness

Inhalation: No specific data.Skin contact: No specific data.Ingestion: No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

Potential immediate : Not available.

effects

## 11. Toxicological information

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : No known significant effects or critical hazards.
 Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Teratogenicity : No known significant effects or critical hazards.
 Developmental effects : No known significant effects or critical hazards.
 Fertility effects : No known significant effects or critical hazards.

## **Numerical measures of toxicity**

**Acute toxicity estimates** 

Not available.

## 12. Ecological information

### **Toxicity**

Product/ingredient name	Result	Species	Exposure
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	Acute EC50 0.016 mg/l	Daphnia	48 hours
	Acute LC50 64 ppb Fresh water	Fish - Oncorhynchus mykiss	96 hours

## Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	-	-	Readily

### **Bioaccumulative potential**

Not available.

**Mobility in soil** 

Soil/water partition : Not available. coefficient (Koc)

## 12. Ecological information

Other adverse effects : No known significant effects or critical hazards.

## 13. Disposal considerations

### **Disposal methods**

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## 14. Transport information

Not a DOT controlled material (United States). Not a TDG-controlled material. This preparation is not classified as dangerous according to international transport regulations (ADR/RID, IMDG or ICAO/IATA).

## 15. Regulatory information

U.S. Federal regulations

: TSCA 4(a) proposed test rules: Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8b): Not determined.

Clean Water Act (CWA) 311: sodium hydroxide; ammonia, anhydrous; pentasodium triphosphate

Clean Air Act Section 112

(b) Hazardous Air **Pollutants (HAPs)**  : Not listed

Clean Air Act Section 602

**Class I Substances** 

: Not listed

**Clean Air Act Section 602** 

Class II Substances

: Not listed

**DEA List I Chemicals** 

(Precursor Chemicals)

: Not listed

**DEA List II Chemicals** 

Not listed

(Essential Chemicals)

**SARA 302/304** 

#### **Composition/information on ingredients**

			SARA 302 TPQ		SARA 304 RQ	
Name	%	EHS	(lbs)	(gallons)	(lbs)	(gallons)
Ammonia	< 0.01	Yes.	500	-	100	-

**SARA 304 RQ** : 1000000000 lbs / 454000000 kg [119100408.7 gal / 450844091.4 L]

**SARA 311/312** 

Classification : Immediate (acute) health hazard

Code # : D0020043 SDS# : D0020043 v7.0 **Date of issue** : 19/03/2015. 9/11

## 15. Regulatory information

### Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Alcohols, C10-16, ethoxylated Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides		No. No.	No. No.	No. No.	Yes. Yes.	No. No.

#### **State regulations**

Massachusetts : None of the components are listed.New York : None of the components are listed.

New Jersey : The following components are listed: ETHYL ALCOHOL; ALCOHOL
Pennsylvania : The following components are listed: DENATURED ALCOHOL

**Label elements** 

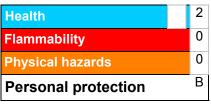
Signal word: : CAUTION

**Hazard statements**: May cause eye irritation.

Precautionary measures : Keep out of reach of children. Avoid contact with eyes. Wash hands after handling.

## 16. Other information

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)



Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

## 16. Other information

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

**Key to abbreviations** : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

**UN = United Nations** 

Date of issue : 19/03/2015.

Date of previous issue : 17/10/2012.

Version : 7

Prepared by : Reckitt Benckiser LLC.

**Product Safety Department** 

1 Philips Parkway

Montvale, New Jersey 07646-1810 USA.

FAX: 201-476-7770

**Revision comments** : Update of SDS as per US GHS.

#### **Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



RB is a member of the CSPA Product Care Product Stewardship Program.

## SAFETY DATA SHEET



Lysol Power and Free Multi-Purpose Cleaner - Oxygen Splash

## 1. Product and company identification

Product name : Lysol Power and Free Multi-Purpose Cleaner - Oxygen Splash

**Distributed by** : Reckitt Benckiser LLC.

Morris Corporate Center IV

399 Interpace Parkway (P.O. Box 225) Parsippany, New Jersey 07054-0225

+1 973 404 2600

Reckitt Benckiser (Canada) Inc. 1680 Tech Avenue, Unit #2 Mississauga, Ontario L4W 5S9

CANADA

Telephone: +1 905 283 7000

Emergency telephone

number (Medical)

: 1-800-338-6167

Emergency telephone number (Transport)

: 1-800-424-9300 (U.S. & Canada) CHEMTREC

Outside U.S. and Canada (North America), call Chemtrec:703-527-3887

Website: : http://www.rbnainfo.com

Product use : Multipurpose Cleaner

This SDS is designed for workplace employees, emergency personnel and for other conditions and situations where there is greater potential for large-scale or prolonged exposure, in accordance with the requirements of USDOL Occupational Safety and Health Administration.

This SDS is not applicable for consumer use of our products. For consumer use, all precautionary and first aid language is provided on the product label in accordance with the applicable government regulations, and shown in Section 15 of this SDS.

**SDS #** : D8247548 v1.0

Formulation #: : e0023-394 /TDS# 0008716

**EPA ID No.** : 777-126

UPC Code / Sizes : HDPE Bottle with Trigger (22 and 32oz)

## 2. Hazards identification

Classification of the substance or mixture

: CORROSIVE TO METALS - Category 1

Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 2%

**GHS label elements** 

## 2. Hazards identification

Hazard pictograms



Signal word : Warning

**Hazard statements** : May be corrosive to metals.

**Precautionary statements** 

General : Keep out of reach of children. If medical advice is needed, have product container or

label at hand.

**Prevention**: Keep only in original container.

**Response** : Absorb spillage to prevent material damage.

Storage : Store in a corrosion resistant container with a resistant inner liner.

Disposal : Not applicable.

Supplemental label : None known.

elements

**Hazards not otherwise** 

classified

Inhalation

: None known.

## 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	%	CAS number
1-(2-butoxy-1-methylethoxy)propan-2-ol	1 - 2.5	29911-28-2
hydrogen peroxide	1 - 2.5	7722-84-1
citric acid	0.1 - 1	77-92-9

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

## 4. First aid measures

#### **Description of necessary first aid measures**

Eye contact : Immediatel

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

minutes. Get medical attention il initation occurs.

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar,

tie, belt or waistband.

**Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean

shoes thoroughly before reuse.

Code # : FF0008716 SDS # : D8247548 v1.0 Date of issue : 25/10/2016 2/13

## 4. First aid measures

### Ingestion

: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Most important symptoms/effects, acute and delayed

### Potential acute health effects

**Eye contact**: Mildly irritating to the eyes.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact** : Slightly irritating to the skin.

**Ingestion** : No known significant effects or critical hazards.

### Over-exposure signs/symptoms

**Eye contact**: Adverse symptoms may include the following:

pain or irritation

redness

Inhalation : No specific data.

**Skin contact**: Adverse symptoms may include the following:

Irritation

Ingestion : No specific data.

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments**: No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may

be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

### See toxicological information (Section 11)

## 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing

media

: None known.

Unsuitable extinguishing

media

Specific hazards arising from the chemical

: In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products

: Decomposition products may include the following materials: carbon dioxide

: Use an extinguishing agent suitable for the surrounding fire.

carbon monoxide

## 5. Fire-fighting measures

**Special protective actions** for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6. Accidental release measures

## Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

## Methods and materials for containment and cleaning up

**Small spill** 

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Absorb spillage to prevent material damage. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Absorb spillage to prevent material damage. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## 7. Handling and storage

#### Precautions for safe handling

**Protective measures** 

: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Absorb spillage to prevent material damage.

including any incompatibilities

Conditions for safe storage, : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store in a corrosion resistant container with a resistant inner liner. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Code # : FF0008716 SDS# : D8247548 v1.0 **Date of issue** : 25/10/2016 4/13

## 8. Exposure controls/personal protection

#### **Control**

### Occupational exposure limits

Ingredient name	Exposure limits
hydrogen peroxide	ACGIH TLV (United States, 4/2014).
	TWA: 1 ppm 8 hours.
	TWA: 1.4 mg/m <sup>3</sup> 8 hours.
	OSHA PEL 1989 (United States, 3/1989).
	TWA: 1 ppm 8 hours.
	TWA: 1.4 mg/m <sup>3</sup> 8 hours.
	NIOSH REL (United States, 10/2013).
	TWA: 1 ppm 10 hours.

OSHA PEL (United States, 2/2013). TWA: 1 ppm 8 hours. TWA: 1.4 mg/m³ 8 hours.

TWA: 1.4 mg/m<sup>3</sup> 10 hours.

Appropriate engineering controls

Environmental exposure controls

- : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### **Individual protection measures**

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with sideshields.

## **Skin protection**

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## 9. Physical and chemical properties

**Appearance** 

Physical state : Liquid.
Color : Clear.

Odor threshold : Characteristic.

Odor threshold : Not available.

**pH** : 2.1 to 3.5 [Conc. (% w/w): 100%]

Melting point: Not available.Boiling point: Not available.

Flash point : Closed cup: >93.3°C (>199.9°F)

Evaporation rate : Not available.
Flammability (solid, gas) : Not available.
Lower and upper explosive : Not available.

(flammable) limits

Vapor pressure : Not available.
Vapor density : Not available.
Relative density : 0.9826 to 1.0185

**Solubility** : Easily soluble in the following materials: cold water and hot water.

Partition coefficient: n-

octanol/water

: Not available.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Not available.

Flow time (ISO 2431) : Not available.

## 10. Stability and reactivity

**Reactivity**: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability**: The product is stable.

Possibility of hazardous : Under normal conditions of storage and use, hazardous reactions will not occur.

reactions

Conditions to avoid : No specific data.

**Incompatible materials**: Reactive or incompatible with the following materials:

metals

Do not mix with household chemicals.

language de como esta en la language de la constitución de la constitu

**Hazardous decomposition**: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11. Toxicological information

Information on toxicological effects

**Acute toxicity** 

## 11. Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
hydrogen peroxide	LD50 Oral		805 mg/kg (70% H2O2 w/w)	-
Citric acid	LD50 Oral	Rat	3 g/kg	-
*Lysol Brand Kills 99.9% of Viruses & Bacteria** with Hydrogen Peroxide Multipurpose Cleaner Citrus Sparkle Zest Scent	LC50 Inhalation Vapor	Rat	>2.06 mg/l	4 hours
	LD50 Dermal LD50 Oral		>5000 mg/kg >5000 mg/kg	-

**Conclusion/Summary** 

: Not classified Harmful \*Information is based on toxicity test result of a similar product.

## **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
hydrogen peroxide	Eyes - Severe irritant	Rabbit	-	1 milligrams	-
Citric acid	Eyes - Severe irritant	Rabbit	-	24 hours 750 Micrograms	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Moderate irritant	Rabbit	-	0.5 Mililiters	-
*Lysol Brand Kills 99.9% of Viruses & Bacteria** with Hydrogen Peroxide Multipurpose Cleaner Citrus Sparkle Zest Scent	Eyes - Cornea opacity	Rabbit	<1	-	-
,	Skin - Slight irritant	Rabbit	<1	-	-

## **Conclusion/Summary**

Skin

: Slightly irritating to the skin. \*Information is based on toxicity test result of a similar product.

**Eyes** 

: Mildly irritating to the eyes. \*Information is based on toxicity test result of a similar product.

### **Sensitization**

Product/ingredient name	Route of exposure	Species	Result
*Lysol Brand Kills 99.9% of Viruses & Bacteria** with Hydrogen Peroxide Multipurpose Cleaner Citrus Sparkle Zest Scent	skin	Guinea pig	Not sensitizing

## **Conclusion/Summary**

Skin

: Non-sensitizer to skin. \*Information is based on toxicity test result of a similar product.

## **Mutagenicity**

Not available.

## **Carcinogenicity**

Not available.

## **Classification**

## 11. Toxicological information

Product/ingredient name	OSHA	IARC	NTP
hydrogen peroxide	-	3	-

#### **Reproductive toxicity**

Not available.

### **Teratogenicity**

Not available.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

### **Aspiration hazard**

Not available.

Information on the likely

routes of exposure

: Not available.

## Potential acute health effects

**Eye contact** : Mildly irritating to the eyes.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact** : Slightly irritating to the skin.

**Ingestion** : No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact**: Adverse symptoms may include the following:

pain or irritation

redness

Inhalation : No specific data.

**Skin contact**: Adverse symptoms may include the following:

Irritation

Ingestion : No specific data.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : No known significant effects or critical hazards.

## 11. Toxicological information

Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Teratogenicity : No known significant effects or critical hazards.
 Developmental effects : No known significant effects or critical hazards.
 Fertility effects : No known significant effects or critical hazards.

### **Numerical measures of toxicity**

**Acute toxicity estimates** 

Not available.

## 12. Ecological information

### **Toxicity**

Product/ingredient name	Result	Species	Exposure
hydrogen peroxide	Acute EC50 1.2 mg/l Marine water	Algae - Dunaliella tertiolecta - Exponential growth phase	72 hours
	Acute EC50 5.38 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 2320 μg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 93 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 989.7 ppm Fresh water	Fish - Oncorhynchus tshawytscha - Egg	43 days
citric acid	Acute LC50 160000 µg/l Marine water	Crustaceans - Carcinus maenas - Adult	48 hours

## Persistence and degradability

Not available.

## **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
1-(2-butoxy-1-methylethoxy) propan-2-ol	1.523	-	low
hydrogen peroxide citric acid	-1.36 -1.8	-	low low

**Mobility in soil** 

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects : No known significant effects or critical hazards.

## 13. Disposal considerations

#### **Disposal methods**

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	UN1760	Corrosive liquids, n.o. s. (citric acid, hydrogen peroxide)	8	III	<b>\( \)</b>	Limited quantity
TDG Classification	UN1760	CORROSIVE LIQUID, N.O.S. (citric acid, hydrogen peroxide)	8	III	<b>\rightarrow</b>	Limited quantity
Mexico Classification	Not applicable	LIQUIDO CORROSIVO, N.E.P. (citric acid, hydrogen peroxide)	Not applicable	N/A		Not applicable.
IMDG Class	UN1760	CORROSIVE LIQUID, N.O.S. (citric acid, hydrogen peroxide)	8	III	$\Diamond$	Limited quantity
IATA-DGR Class	UN1760	Corrosive liquid, n.o.s. (citric acid, hydrogen peroxide)	8	III		See DG List.

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

PG\* : Packing group

Code # : FF0008716 SDS# : D8247548 v1.0 **Date of issue** : 25/10/2016 10/13

## 15. Regulatory information

**U.S. Federal regulations** : TSCA 8(a) PAIR: 1-(2-butoxy-1-methylethoxy)propan-2-ol

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8b): All components are listed or exempted.

Clean Air Act Section 112

(b) Hazardous Air **Pollutants (HAPs)**  : Listed

Clean Air Act Section 602

**Class I Substances** 

: Not listed

Clean Air Act Section 602

**Class II Substances** 

: Not listed

**DEA List I Chemicals** 

(Precursor Chemicals)

: Not listed

**DEA List II Chemicals** 

(Essential Chemicals)

: Not listed

**SARA 302/304** 

### **Composition/information on ingredients**

			SARA 302 T	<b>TPQ</b>	SARA 304 RQ	
Name	%	EHS	(lbs)	(gallons)	(lbs)	(gallons)
hydrogen peroxide	1 - 2.5	Yes.	1000	106.1	1000	106.1

**SARA 304 RQ** : 95238.1 lbs / 43238.1 kg [11416 gal / 43214.3 L]

**SARA 311/312** 

Classification : Reactive **Composition/information on ingredients** 

Name	%	hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
hydrogen peroxide citric acid		No. No.	No. No.	No. No.	Yes. Yes.	No. No.

#### State regulations

**Massachusetts** : The following components are listed: HYDROGEN PEROXIDE

**New York** : The following components are listed: Hydrogen peroxide

**New Jersey** : The following components are listed: HYDROGEN PEROXIDE

**Pennsylvania** : The following components are listed: HYDROGEN PEROXIDE (CONC > 52 PERCENT)

Canada

WHMIS (Canada) : Class D-1B: Material causing immediate and serious toxic effects (Toxic).

Class E: Corrosive material

**Canadian lists** 

**Canadian NPRI** : None of the components are listed. : None of the components are listed. **CEPA Toxic substances** 

**Canada inventory** Not determined.

Code # : FF0008716 SDS# : D8247548 v1.0 **Date of issue** : 25/10/2016 11/13

## 15. Regulatory information

**Label elements** 

Signal word: : CAUTION

**Hazard statements**: Keep out of reach of children.

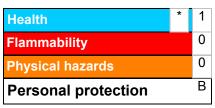
**Precautionary measures**: Avoid contact with eyes, skin and clothing.

Avoid breathing dust/fume/gas/mist/vapors/spray.

Additional information : Short term Skin Bleaching agent. IF ON SKIN: Rinse skin with water.

## 16. Other information

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)



Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

**Key to abbreviations** : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

**UN = United Nations** 

## 16. Other information

**Date of issue** : 25/10/2016

Date of previous issue : No previous validation

Version : 2

Prepared by : Reckitt Benckiser Hull (UK)

Dansom Lane Hull, HU8 7DS United Kingdom T +44 (0)1482 326151 F +44 (0)1482 582532

✓ Indicates information that has changed from previously issued version.

#### **Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



RB is a member of the CSPA Product Care Product Stewardship Program.

## SAFETY DATA SHEET



Professional Lysol Disinfectant Spray - All Scents

## 1. Product and company identification

: Professional Lysol Disinfectant Spray - All Scents **Product name** 

**Distributed by** : Reckitt Benckiser LLC.

Morris Corporate Center IV

399 Interpace Parkway (P.O. Box 225) Parsippany, New Jersey 07054-0225

+1 973 404 2600

**Emergency telephone** 

number (Medical)

**Emergency telephone** 

number (Transport)

: 1-800-338-6167

: 1-800-424-9300 (U.S. & Canada) CHEMTREC

Outside U.S. and Canada (North America), call Chemtrec:703-527-3887

Website: : http://www.rbnainfo.com

: Lysol® Brand III Kills 99.9% of Viruses & Bacteria\*\* Disinfectant Spray **Synonym** 

Cherry Blossom & Pomegranate Scent

Citrus Meadows Scent/Hawaii Sunset Essence Scent

Crisp Linen Scent/For Baby's room

Crisp Mountain Air Scent/Cool Adirondack Air Scent

Early Morning Breeze Scent

•For Baby's Room Jasmine & Rain Scent

 Lemon Breeze Spring Waterfall Summer Breeze

Vanilla & Blossoms Scent

 Crisp Berry Scent Original Scent Garden Mist Scent

**Product use** : Disinfectant.

This SDS is designed for workplace employees, emergency personnel and for other conditions and situations where there is greater potential for large-scale or prolonged exposure, in accordance with the requirements of **USDOL** Occupational Safety and Health Administration.

This SDS is not applicable for consumer use of our products. For consumer use, all precautionary and first aid language is provided on the product label in accordance with the applicable government regulations, and shown in Section 15 of this SDS.

SDS# : D0224478 v10.0

Formulation #: : 1338-022 (0175933 v1.0) Original

1338-022 (8083521 v1.0) Original 1338-019 (0175919 v1.0) Country 1338-019 (8080039 v1.0) Campestre 1338-016 (0175935 v1.0) Summer Breeze

1338-018 (0175934 v1.0) Green Apple / Green Apple Breeze

1338-017 (0175927 v1.0) Kitchen (Citrus) 1338-021 (0175938 v1.0) Crisp Berry 1338-020 (0175932 v1.0) Garden Mist

SDS# : D0224478 v10.0 **Date of issue** : 05/01/2017 1/14 Code # : D0224478 US GHS

# 1. Product and company identification

1338-020 (8089468 v1.0) Bebe

1338-015 (0175918 v1.0) Spring Waterfall 1338-015 (0258756 v1.0) Blr Swf Ext Prd 1178-172 (0175917 v1.0) Crisp Linen 1178-172 (8089462 v1.0) Frescura 1178-172 (0242193 v1.0) Blr C/L Ext Prd 1338-026 (0175929 v1.0) Early Morning Breeze 1314-032 (0175926 v1.0) Citrus Meadows 1544-074 (0175943 v2.0) Vanilla & Blossoms 1314-038 (0175920 v1.0) Jasmine & Rain / Lavender e0002-161 (8159483 v1.0) Pomegranate Crush

1784-045A (0346500 v1.0) Crisp Mountain Air 1325-133 (0222651 v1.0) Amphyl

1338-023 (0175940 v1.0) Fresh / Oxygen

**EPA ID No.** : 777-99

**UPC Code / Sizes**: Sizes: 6 oz., 12 oz., 12.5 oz. and 19 oz. (Tin plate steel cans).

# 2. Hazards identification

Classification of the substance or mixture

: FLAMMABLE AEROSOLS - Category 2

GASES UNDER PRESSURE - Compressed gas

Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 2.4%

# **GHS label elements**

Hazard pictograms





Signal word : Warning

**Hazard statements**: Flammable aerosol.

Contains gas under pressure; may explode if heated.

**Precautionary statements** 

General : Keep out of reach of children. If medical advice is needed, have product container or

label at hand.

**Prevention**: Wear eye or face protection. Keep away from heat, sparks, open flames and hot

surfaces. - No smoking. Pressurized container: may burst if heated. Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source. Wash

hands thoroughly after handling.

Response : Not applicable.

Storage : Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store in

a well-ventilated place.

Disposal : Not applicable.

Supplemental label

elements

: None known.

**Hazards not otherwise** 

classified

: None known.

Code # : D0224478 US GHS SDS # : D0224478 v10.0 Date of issue : 05/01/2017 2/14

**Eye contact** 

Inhalation

# 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	%	CAS number
Ethyl alcohol	30 - 60	64-17-5
butane	1-5	106-97-8
propane	<2.5	74-98-6

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

# 4. First aid measures

# **Description of necessary first aid measures**

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10

minutes. Get medical attention if irritation occurs.

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar,

tie, belt or waistband.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and

shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean

shoes thoroughly before reuse.

Ingestion : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and

keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately.

Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

# Most important symptoms/effects, acute and delayed

# Potential acute health effects

**Eye contact** : May cause eye irritation upon direct contact with eyes.

Inhalation : No known significant effects or critical hazards. Skin contact : No known significant effects or critical hazards. Ingestion : No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:

> irritation redness

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

**Skin contact** : No specific data. : No specific data. Ingestion

: D0224478 US GHS SDS# 3/14 Code # : D0224478 v10.0 **Date of issue** : 05/01/2017

# 4. First aid measures

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** 

: No specific treatment.

**Protection of first-aiders** 

: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

# 5. Fire-fighting measures

# **Extinguishing media**

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media

: None known.

Specific hazards arising from the chemical

: Flammable aerosol. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed. Runoff to sewer may create fire or explosion hazard.

Hazardous thermal decomposition products

 Decomposition products may include the following materials: carbon dioxide carbon monoxide

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

# 6. Accidental release measures

# Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders:

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Code # : D0224478 US GHS SDS # : D0224478 v10.0 Date of issue : 05/01/2017 4/14

# 6. Accidental release measures

#### Methods and materials for containment and cleaning up

# **Small spill**

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

# Large spill

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible. absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# 7. Handling and storage

# Precautions for safe handling

#### **Protective measures**

: Put on appropriate personal protective equipment (see Section 8). Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not ingest. Avoid contact with eves, skin and clothing. Avoid breathing gas. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous.

# including any incompatibilities

Conditions for safe storage, : Do not store above the following temperature: 50°C (122°F). Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Protect from sunlight. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination.

# 8. Exposure controls/personal protection

#### **Control**

### Occupational exposure limits

Ingredient name	Exposure limits
Ethyl alcohol	ACGIH TLV (United States, 6/2013).  STEL: 1000 ppm 15 minutes.  OSHA PEL 1989 (United States, 3/1989).  TWA: 1000 ppm 8 hours.  TWA: 1900 mg/m³ 8 hours.  NIOSH REL (United States, 10/2013).  TWA: 1000 ppm 10 hours.  TWA: 1900 mg/m³ 10 hours.  OSHA PEL (United States, 2/2013).  TWA: 1000 ppm 8 hours.
butane	TWA: 1900 mg/m³ 8 hours.  OSHA PEL 1989 (United States, 3/1989).  TWA: 800 ppm 8 hours.  TWA: 1900 mg/m³ 8 hours.  NIOSH REL (United States, 10/2013).
ode # • D0224478 US GHS • SDS #	• D0224478 v10 0

Code # : D0224478 US GHS : D0224478 v10.0 **Date of issue** : 05/01/2017 5/14

propane

# 8. Exposure controls/personal protection

TWA: 800 ppm 10 hours. TWA: 1900 mg/m³ 10 hours.

ACGIH TLV (United States, 6/2013).

STEL: 1000 ppm 15 minutes.

OSHA PEL 1989 (United States, 3/1989).

TWA: 1000 ppm 8 hours. TWA: 1800 mg/m³ 8 hours.

NIOSH REL (United States, 10/2013).

TWA: 1000 ppm 10 hours. TWA: 1800 mg/m³ 10 hours. OSHA PEL (United States, 2/2013).

TWA: 1000 ppm 8 hours. TWA: 1800 mg/m<sup>3</sup> 8 hours.

# Appropriate engineering controls

: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

# **Environmental exposure** controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### Individual protection measures

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with sideshields.

# Skin protection Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

# **Body protection**

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

# Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

# **Respiratory protection**

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Code # : D0224478 US GHS SDS # : D0224478 v10.0 Date of issue : 05/01/2017 6/14

# 9. Physical and chemical properties

**Appearance** 

Physical state : Liquid. [Aerosol.]

Color : Clear.

Odor : Characteristic.
Odor threshold : Not available.

**PH** : 10.5 to 11.8 [Conc. (% w/w): 100%]

Melting point: Not available.Boiling point: Not available.

Flash point : Closed cup: 25.6°C (78.1°F)

Evaporation rate : Not available.
Flammability (solid, gas) : Not available.
Lower and upper explosive : Not available.

(flammable) limits

Vapor pressure : Not available.
Vapor density : Not available.

**Relative density** : 0.8667 to 0.8967 g/cm³ [20 to 25°C]

**Solubility** : Easily soluble in the following materials: cold water and hot water.

Partition coefficient: n-

octanol/water

: Not available.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Not available.

Flow time (ISO 2431) : Not available.

Aerosol product

products

Type of aerosol : Spray
Heat of combustion : 17.99 kJ/g
Ignition distance : <45.72 cm

# 10. Stability and reactivity

**Reactivity**: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability**: The product is stable.

**Possibility of hazardous**: Under normal conditions of storage and use, hazardous reactions will not occur. reactions

**Conditions to avoid** : Avoid all possible sources of ignition (spark or flame).

Incompatible materials : No specific data.

Hazardous decomposition : Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

Code # : D0224478 US GHS SDS # : D0224478 v10.0 Date of issue : 05/01/2017 7/14

# 11. Toxicological information

# Information on toxicological effects

# **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Ethyl alcohol	LC50 Inhalation Vapor LD50 Oral	Rat Rat	124700 mg/m³ 7 g/kg	4 hours
Lysol® Brand III Kills 99.9% of Viruses & Bacteria** Disinfectant Spray	LC50 Inhalation Vapor	Rat	>2.12 mg/l	4 hours Maximum attainable concentration

**Conclusion/Summary** 

: Not classified Harmful. \* Information is based on toxicity test result of the concentrate of a similar product.

# **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
Ethyl alcohol	Eyes - Moderate irritant	Rabbit	-	0.066666667 minutes 100 milligrams	-
	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	100 microliters	-
	Eyes - Severe irritant	Rabbit	-	500 milligrams	-
	Skin - Mild irritant	Rabbit	-	400 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
Lysol® Brand III Kills 99.9% of Viruses & Bacteria** Disinfectant Spray	Eyes - Cornea opacity	Rabbit	<1	72 hours	4 days
	Skin - Primary dermal irritation index (PDII)	Rabbit	0.3	4 hours	72 hours

# **Conclusion/Summary**

Skin

: Slightly irritating to the skin. \*Information is based on toxicity test result of the concentrate of a similar product.

**Eyes** 

: Moderately irritating to eyes. \*Information is based on toxicity test result of the concentrate of a similar product.

Respiratory

: Based on available data, the classification criteria are not met.

# **Sensitization**

Not available.

# **Mutagenicity**

Not available.

# Carcinogenicity

Not available.

# **Classification**

Product/ingredient name	OSHA	IARC	NTP
Ethyl alcohol	-	1	-

Code # : D0224478\_US GHS SDS # : D0224478 v10.0 Date of issue : 05/01/2017 8/14

# 11. Toxicological information

# **Reproductive toxicity**

Not available.

# **Teratogenicity**

Not available.

### Specific target organ toxicity (single exposure)

Not available.

# Specific target organ toxicity (repeated exposure)

Not available.

# **Aspiration hazard**

Not available.

Information on the likely

routes of exposure

: Not available.

# Potential acute health effects

**Eye contact**: May cause eye irritation upon direct contact with eyes.

Inhalation
 Skin contact
 No known significant effects or critical hazards.
 Ingestion
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

# Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following:

irritation redness

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

Skin contact : No specific data.

Ingestion : No specific data.

# Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : No known significant effects or critical hazards.
 Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Teratogenicity : No known significant effects or critical hazards.

Code # : D0224478 US GHS SDS # : D0224478 v10.0 Date of issue : 05/01/2017 9/14

# 11. Toxicological information

**Developmental effects** 

: No known significant effects or critical hazards.

**Fertility effects** 

: No known significant effects or critical hazards.

# **Numerical measures of toxicity**

**Acute toxicity estimates** 

Not available.

# 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
Ethyl alcohol	Acute EC50 17.921 mg/l Marine water Acute EC50 2000 μg/l Fresh water Acute LC50 25500 μg/l Marine water Acute LC50 42000 μg/l Fresh water Chronic NOEC 4.995 mg/l Marine water Chronic NOEC 0.375 ul/L Fresh water	Algae - Ulva pertusa Daphnia - Daphnia magna Crustaceans - Artemia franciscana - Larvae Fish - Oncorhynchus mykiss Algae - Ulva pertusa Fish - Gambusia holbrooki - Larvae	96 hours 48 hours 48 hours 4 days 96 hours 12 weeks

# Persistence and degradability

Not available.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Ethyl alcohol	-0.35	-	low
butane	2.89	-	low
propane	1.09	_	low

# **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

# Other adverse effects

: No known significant effects or critical hazards.

# 13. Disposal considerations

# **Disposal methods**

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

Code # : D0224478 US GHS SDS # : D0224478 v10.0 Date of issue : 05/01/2017 10/14

# 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	UN1950	Aerosols, flammable	2.1	-	$\Diamond$	Limited quantity
TDG Classification	UN1950	Aerosols, flammable	2.1	-	$\Diamond$	Limited quantity
Mexico Classification	UN1950	Aerosols, flammable	2.1	-	$\Diamond$	Limited quantity
IMDG Class	UN1950	Aerosols, flammable	2.1	-	$\Diamond$	Limited quantity
IATA-DGR Class	UN1950	Aerosols, flammable	2.1	-		See DG List

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the

PG\*: Packing group

# 15. Regulatory information

U.S. Federal regulations

: TSCA 8(a) PAIR: 2-methylpropan-2-ol

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8b): Not determined.

Clean Water Act (CWA) 311: ammonia

Clean Air Act (CAA) 112 regulated flammable substances: butane; propane

Clean Air Act Section 112

(b) Hazardous Air **Pollutants (HAPs)**  : Not listed

Clean Air Act Section 602

**Class I Substances** 

: Not listed

Clean Air Act Section 602 **Class II Substances** 

: Not listed

**DEA List I Chemicals** 

: Not listed

(Precursor Chemicals)

**DEA List II Chemicals** (Essential Chemicals) : Not listed

**SARA 302/304** 

Code # **Date of issue** : 05/01/2017 11/14 : D0224478\_US GHS SDS# : D0224478 v10.0

# 15. Regulatory information

# **Composition/information on ingredients**

No products were found.

SARA 304 RQ : Not applicable.

**SARA 311/312** 

Classification : Fire hazard

Sudden release of pressure

# **Composition/information on ingredients**

Name	%	hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Ethyl alcohol butane propane	5 - 10	Yes. Yes. Yes.	No. Yes. Yes.	No. No. No.	Yes. No. No.	No. No. No.

State regulations

Massachusetts : The following components are listed: ETHYL ALCOHOL; BUTANE; PROPANE

New York : None of the components are listed.

New Jersey : The following components are listed: ETHYL ALCOHOL; ALCOHOL; BUTANE;

**PROPANE** 

Pennsylvania: The following components are listed: DENATURED ALCOHOL; BUTANE; PROPANE

<u>Canada</u>

WHMIS (Canada) : Class B-2: Flammable liquid

Class B-5: Flammable aerosol.

**Canadian lists** 

**Canadian NPRI** : The following components are listed: Ethanol; Butane (all isomers); Propane

**CEPA Toxic substances**: None of the components are listed.

Canada inventory : Not determined.

Label elements

Signal word: : CAUTION

**Hazard statements** : Causes moderate eye irritation

**Precautionary measures**: Do not get in eyes, on skin, or on clothing. Wash with soap and water.

Keep out of the reach of children.

CONTENTS UNDER PRESSURE. Do not puncture or incinerate container. Do not expose to heat or store at temperatures above 120  $^{\circ}$ F. Keep away from heat, sparks,

open flames and hot surfaces. - No smoking.

Hazard statements :

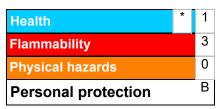


Flammable

Code # : D0224478 US GHS SDS # : D0224478 v10.0 Date of issue : 05/01/2017 12/14

# 16. Other information

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)



# NFPA (30B) aerosol Flammability Level 1

Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Key to abbreviations

: ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

Date of issue : 05/01/2017

Date of previous issue : 26/06/2015.

Version : 1

Prepared by : Reckitt Benckiser LLC.

Product Safety Department

1 Philips Parkway

Montvale, New Jersey 07646-1810 USA.

FAX: 201-476-7770

Code # : D0224478 US GHS SDS # : D0224478 v10.0 Date of issue : 05/01/2017 13/14

# 16. Other information

**Revision comments** 

: Addition of the compressed gas pictogram on section 2 and section 1 for Parsippany address

▼ Indicates information that has changed from previously issued version.

### **Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



RB is a member of the CSPA Product Care Product Stewardship Program.

Code # : D0224478\_US GHS SDS # : D0224478 v10.0 Date of issue : 05/01/2017 14/14



Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

US GHS SDS

Revision Date: 03/15/2022 Date of Issue: 08/26/2020 Version: 1.1

# **SECTION 1: IDENTIFICATION**

#### 1.1. **Product Identifier** Product Form: Mixture

Product Name: Marvel Mystery Oil

Product Code: MM12R (50094), MM13R (50095), MM13RC (50096), MM14R (50097), 50982, 53436 - See section 16 for

discontinued SKU's

Formulation Identification Number: 42/212/01

**Intended Use of the Product** 1.2.

Use of the Substance/Mixture: Engine Oil Additive - Fuel additive Name, Address, and Telephone of the Responsible Party 1.3.

Manufacturer

Marvel Oil Company, Inc.

2250 W. Pinehurst Blvd., Suite 150

Addison, IL 60101-6103

Phone Number: 1(630)455-3700 Toll-Free Number: 1(800)232-9596

### **Emergency Telephone Number**

**Emergency Number** : ChemTel LLC

> 1-800-255-3924 (US and Canada) 1-813-248-0585 (International)

# **SECTION 2: HAZARDS IDENTIFICATION**

#### **Classification of the Substance or Mixture** 2.1.

Flam. Liq. 3 H226 Skin Irrit. 2 H315 Repr. 2 H361 STOT SE 3 H336 Asp. Tox. 1 H304 Aquatic Acute 2 H401 Aquatic Chronic 2 H411

Full text of hazard classes and H-statements: see section 16

#### **Label Elements**

**GHS-US Labeling** 

**Hazard Pictograms (GHS-US)** 









Signal Word (GHS-US)

: Danger

**Hazard Statements (GHS-US)** : H226 - Flammable liquid and vapor.

H304 - May be fatal if swallowed and enters airways.

H315 - Causes skin irritation.

H336 - May cause drowsiness or dizziness.

H361 - Suspected of damaging fertility or the unborn child.

H401 - Toxic to aquatic life.

H411 - Toxic to aquatic life with long lasting effects.

**Precautionary Statements (GHS-US)** : P201 - Obtain special instructions before use.

> P202 - Do not handle until all safety precautions have been read and understood. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P233 - Keep container tightly closed.

P240 - Ground/Bond container and receiving equipment.

03/15/2022 EN (English US) 1/9

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations US GHS SDS

- P241 Use explosion-proof electrical, ventilating, and lighting equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P261 Avoid breathing vapors, mist, or spray.
- P264 Wash hands, forearms, and other exposed areas thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P273 Avoid release to the environment.
- P280 Wear protective gloves, protective clothing, and eye protection.
- P301+P310 If swallowed: Immediately call a poison center or doctor.
- P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+P340 If inhaled: Remove person to fresh air and keep at rest in a position comfortable for breathing.
- P308+P313 If exposed or concerned: Get medical advice/attention.
- P312 Call a poison center or doctor if you feel unwell.
- P321 Specific treatment (see section 4 on this SDS).
- P331 Do NOT induce vomiting.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P370+P378 In case of fire: Use appropriate media (see section 5) to extinguish.
- P391 Collect spillage.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local, regional, national, and international regulations.

#### 2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

# 2.4. Unknown Acute Toxicity (GHS-US)

No data available

# **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

# 3.1. Substance

Not applicable

#### 3.2. Mixture

Name	Synonyms	Product Identifier	%	GHS US classification
Petroleum distillates, hydrotreated light	Distillates (petroleum), hydrotreated light / Distillates, petroleum, hydrotreated light / Hydrotreated light distillate	(CAS-No.) 64742-47-8	10 - 30	Flam. Liq. 3, H226 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
Phosphoric acid, tris(methylphenyl) esters	Phosphoric acid, tris(methylphenyl) ester / Phosphoric acid, tritolyl ester / Tricresyl phosphate	(CAS-No.) 1330-78-5	0.1 - 1	Repr. 2, H361 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
o-Dichlorobenzene	Benzene, 1,2-dichloro- / Benzene, o-dichloro- / ortho- Dichlorobenzene	(CAS-No.) 95-50-1	0.11 - 0.14	Not classified
p-Dichlorobenzene	Benzene, 1,4-dichloro- / Benzene, p-dichloro- / para- Dichlorobenzene	(CAS-No.) 106-46-7	0.0002 - 0.003	Not classified

Full text of H-phrases: see section 16

The specific chemical identity and/or exact percentage of composition have been withheld as a trade secret [29 CFR 1910.1200].

# **SECTION 4: FIRST AID MEASURES**

#### 4.1. Description of First-aid Measures

**First-aid Measures General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

03/15/2022 EN (English US) 2/9

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations US GHS SDS

**First-aid Measures After Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

**First-aid Measures After Skin Contact:** Immediately remove contaminated clothing. Immediately drench affected area with water for at least 15 minutes. If exposed or concerned: Get medical advice/attention.

**First-aid Measures After Eye Contact:** Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for at least 15 minutes. Obtain medical attention if irritation develops or persists.

**First-aid Measures After Ingestion:** Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

#### 4.2. Most Important Symptoms and Effects Both Acute and Delayed

**Symptoms/Injuries:** Causes skin irritation. May be fatal if swallowed and enters airways. May cause drowsiness and dizziness. Suspected of damaging fertility or the unborn child.

**Symptoms/Injuries After Inhalation:** High concentrations may cause central nervous system depression such as dizziness, vomiting, numbness, drowsiness, headache, and similar narcotic symptoms.

Symptoms/Injuries After Skin Contact: Redness, pain, swelling, itching, burning, dryness, and dermatitis.

Symptoms/Injuries After Eye Contact: May cause slight irritation to eyes.

**Symptoms/Injuries After Ingestion:** Aspiration into the lungs can occur during ingestion or vomiting and may cause lung injury. **Chronic Symptoms:** Suspected of damaging fertility or the unborn child.

# 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

# **SECTION 5: FIRE-FIGHTING MEASURES**

# 5.1. Extinguishing Media

Suitable Extinguishing Media: Water spray, fog, alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>), dry chemical powder.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. A heavy water stream may spread burning liquid.

### 5.2. Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Flammable liquid and vapor. Vapours are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapours. Special attention should be given to low areas/pits where flammable vapours can accumulate.

**Explosion Hazard:** May form flammable or explosive vapor-air mixture.

**Reactivity:** Reacts violently with strong oxidizers. Increased risk of fire or explosion.

#### 5.3. Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates and gases, including carbon monoxide and unidentified organic and inorganic compounds. Phosphorus oxides. Chlorine compounds.

Other Information: Do not allow run-off from fire fighting to enter drains or water courses.

# SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Do not breathe vapor, mist or spray. Avoid all contact with skin, eyes, or clothing. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Use special care to avoid static electric charges.

# 6.1.1. For Non-Emergency Personnel

**Protective Equipment:** Use appropriate personal protective equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel. Stop leak if safe to do so.

#### 6.1.2. For Emergency Personnel

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area. Eliminate ignition sources.

#### 6.2. Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment. Collect spillage.

#### 6.3. Methods and Materials for Containment and Cleaning Up

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions.

03/15/2022 EN (English US) 3/9

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations US GHS SDS

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Absorb and/or contain spill with inert material. Do not take up in combustible material such as: saw dust or cellulosic material. Transfer spilled material to a suitable container for disposal. Use only non-sparking tools. Contact competent authorities after a spill.

#### 6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

# **SECTION 7: HANDLING AND STORAGE**

# 7.1. Precautions for Safe Handling

Additional Hazards When Processed: Handle empty containers with care because residual vapors are flammable.

**Precautions for Safe Handling:** Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Do not get in eyes, on skin, or on clothing. Do not breathe vapors, mist, spray. Take precautionary measures against static discharge. Use only non-sparking tools. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

#### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Comply with applicable regulations. Take action to prevent static discharges. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating, and lighting equipment.

**Storage Conditions:** Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store locked up/in a secure area. Store in a well-ventilated place. Keep container tightly closed. Keep in fireproof place.

**Incompatible Materials:** Strong acids, strong bases, strong oxidizers.

Maximum Storage Period: Shelf life is considered to be 7-10 years when properly stored.

#### 7.3. Specific End Use(s)

Engine Oil Additive - Fuel additive (EPA Registered)

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

supplier, importer, or the appropriate davisory agency including. Acoust (124), Allia (122), 1110311 (122), or Ostia (122).			
o-Dichlorobe	nzene (95-50-1)		
USA ACGIH	ACGIH TWA (ppm)	25 ppm	
USA ACGIH	ACGIH STEL (ppm)	50 ppm	
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen	
USA NIOSH	NIOSH REL (ceiling) (mg/m³)	300 mg/m <sup>3</sup>	
USA NIOSH	NIOSH REL (ceiling) (ppm)	50 ppm	
USA IDLH	US IDLH (ppm)	200 ppm	
USA OSHA	OSHA PEL (Ceiling) (mg/m³)	300 mg/m <sup>3</sup>	
USA OSHA	OSHA PEL (Ceiling) (ppm)	50 ppm	
p-Dichlorobe	nzene (106-46-7)		
USA ACGIH	ACGIH TWA (ppm)	10 ppm	
USA ACGIH	ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans	
USA IDLH	US IDLH (ppm)	150 ppm	
USA OSHA	OSHA PEL (TWA) (mg/m³)	450 mg/m <sup>3</sup>	
USA OSHA	OSHA PEL (TWA) (ppm)	75 ppm	

# 8.2. Exposure Controls

**Appropriate Engineering Controls** 

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. Gas detectors should be used when flammable gases or vapors may be released. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment.

03/15/2022 EN (English US) 4/9

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations US GHS SDS

**Personal Protective Equipment** 

: Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.









**Materials for Protective Clothing** 

: Chemically resistant materials and fabrics. Wear fire/flame resistant/retardant

clothing.

Hand Protection: Wear protective gloves.Eye and Face Protection: Chemical safety goggles.

**Skin and Body Protection**: Wear suitable protective clothing.

Respiratory Protection : If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory

protection.

Other Information : When using, do not eat, drink or smoke

# **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

9.1. Information on Basic Physical and Chemical Properties

Physical State : Liquid
Appearance : Clear Red

Odor : Oil of wintergreen - minty

Odor Threshold: No data availablepH: No data availableEvaporation Rate: No data availableMelting Point: -51 °C (-59.8 °F)Freezing Point: No data available

Boiling Point : No data available

Flash Point

: 53 °C (127.4 °F) Seta Closed Cup
Auto-ignition Temperature

: No data available

Decomposition Temperature

: No data available

: Not applicable

Vapor Pressure

: No data available

**Specific Gravity** : 0.876

Solubility: Water: InsolublePartition Coefficient: N-Octanol/Water: No data availableViscosity: No data available

Viscosity, Kinematic : 2-3 cSt @ 100 °C (212 °F)

9.2. Other Information

VOC content (California) : 24.31 % % NVM by Weight : 75 %

# **SECTION 10: STABILITY AND REACTIVITY**

**10.1. Reactivity:** Reacts violently with strong oxidizers. Increased risk of fire or explosion.

- 10.2. Chemical Stability: Flammable liquid and vapor. May form flammable or explosive vapor-air mixture.
- **10.3. Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.
- **10.4. Conditions to Avoid:** Direct sunlight, extremely high or low temperatures, heat, hot surfaces, sparks, open flames, incompatible materials, and other ignition sources.
- **10.5. Incompatible Materials:** Strong acids, strong bases, strong oxidizers.
- **10.6.** Hazardous Decomposition Products: Not expected to decompose under ambient conditions.

# **SECTION 11: TOXICOLOGICAL INFORMATION**

11.1. Information on Toxicological Effects

Acute Toxicity (Oral): Not classified
Acute Toxicity (Dermal): Not classified
Acute Toxicity (Inhalation): Not classified

03/15/2022 EN (English US) 5/9

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations US GHS SDS

o-Dichlorobenzene (95-50-1)	o-Dichlorobenzene (95-50-1)				
LD50 Oral Rat	1516 mg/kg				
LD50 Dermal Rabbit	> 10 g/kg				
LC50 Inhalation Rat	9.2 mg/l (Exposure time: 6 h)				
p-Dichlorobenzene (106-46-7)					
LD50 Oral Rat	> 2000 mg/kg				
LD50 Dermal Rat	> 6000 mg/kg				
LC50 Inhalation Rat	> 5070 mg/m³ (Exposure time: 4 h)				
Phosphoric acid, tris(methylphenyl) esters (1330-7	78-5)				
LD50 Oral Rat	> 20000 mg/kg				
LD50 Dermal Rabbit	> 10000 mg/kg				
LC50 Inhalation Rat	> 5.2 mg/l/4h				
Petroleum distillates, hydrotreated light (64742-47-8)					
LD50 Oral Rat	> 5000 mg/kg				
LD50 Dermal Rabbit	> 2000 mg/kg				
LC50 Inhalation Rat	> 5.3 mg/l/4h				

Skin Corrosion/Irritation: Causes skin irritation.
Serious Eye Damage/Irritation: Not classified
Respiratory or Skin Sensitization: Not classified
Germ Cell Mutagenicity: Not classified

Carcinogenicity: Not classified

o-Dichlorobenzene (95-50-1)			
IARC group	RC group 3		
p-Dichlorobenzene (106-46-7)			
IARC group 2B			
National Toxicology Program (NTP) Status	Evidence of Carcinogenicity, Reasonably anticipated to be Human		
	Carcinogen.		
OSHA Hazard Communication Carcinogen List	Communication Carcinogen List In OSHA Hazard Communication Carcinogen list.		

Reproductive Toxicity: Suspected of damaging fertility or the unborn child.

**Specific Target Organ Toxicity (Single Exposure):** May cause drowsiness or dizziness.

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified **Aspiration Hazard:** May be fatal if swallowed and enters airways.

Symptoms/Injuries After Inhalation: High concentrations may cause central nervous system depression such as dizziness,

vomiting, numbness, drowsiness, headache, and similar narcotic symptoms.

Symptoms/Injuries After Skin Contact: Redness, pain, swelling, itching, burning, dryness, and dermatitis.

Symptoms/Injuries After Eye Contact: May cause slight irritation to eyes.

Symptoms/Injuries After Ingestion: Aspiration into the lungs can occur during ingestion or vomiting and may cause lung injury.

Chronic Symptoms: Suspected of damaging fertility or the unborn child.

# **SECTION 12: ECOLOGICAL INFORMATION**

# 12.1. Toxicity

**Ecology - General** : Toxic to aquatic life with long lasting effects.

o-Dichlorobenzene (95-50-1)			
LC50 Fish 1	8.23 – 10.9 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-		
	through])		
EC50 Daphnia 1	0.74 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])		
LC50 Fish 2	5.8 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])		
NOEC Chronic Crustacea	0.1 mg/l		
p-Dichlorobenzene (106-46-7)			
LC50 Fish 1	18 – 50 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])		
EC50 Daphnia 1	0.7 mg/l		
LC50 Fish 2	4 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])		
NOEC Chronic Crustacea	0.1 mg/l		
Phosphoric acid. tris(methylphenyl) esters (1330-78-5)			

03/15/2022 EN (English US) 6/9

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations US GHS SDS

LC50 Fish 1	0.1 – 0.22 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through])		
LC50 Fish 2	0.21 – 0.32 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-		
	through])		
Petroleum distillates, hydrotreated light (	64742-47-8)		
Petroleum distillates, hydrotreated light ( LC50 Fish 1	64742-47-8) 45 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])		

# 12.2. Persistence and Degradability

Marvel Mystery Oil	
Persistence and Degradability	May cause long-term adverse effects in the environment.

#### 12.3. Bioaccumulative Potential

Marvel Mystery Oil		
Bioaccumulative Potential	Not established.	
o-Dichlorobenzene (95-50-1)		
BCF Fish 1	90 – 260	
Partition coefficient n-octanol/water (Log	3.43	
Pow)		
p-Dichlorobenzene (106-46-7)		
Partition coefficient n-octanol/water (Log	3.4	
Pow)		
Petroleum distillates, hydrotreated light (64742-47-8)		
BCF Fish 1	61 – 159	

**12.4. Mobility in Soil** No additional information available

### 12.5. Other Adverse Effects

Other Information : Avoid release to the environment.

# **SECTION 13: DISPOSAL CONSIDERATIONS**

#### 13.1. Waste Treatment Methods

**Waste Disposal Recommendations:** Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

**Additional Information:** EPA Hazardous Waste Number: D001 (Ignitability). Handle empty containers with care because residual vapors are flammable.

**Ecology - Waste Materials:** Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

# **SECTION 14: TRANSPORT INFORMATION**

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

# 14.1. In Accordance with DOT

Proper Shipping Name : PETROLEUM DISTILLATES, N.O.S

Hazard Class : 3
Identification Number : UN1268
Label Codes : 3
Packing Group : III

Marine Pollutant : Marine pollutant

ERG Number : 128 14.2. In Accordance with IMDG

Proper Shipping Name : PETROLEUM DISTILLATES, N.O.S.

Hazard Class : 3
Identification Number : UN1268
Packing Group : III
Label Codes : 3
EmS-No. (Fire) : F-E
EmS-No. (Spillage) : S-E

Marine Pollutant : Marine pollutant

14.3. In Accordance with IATA

**Proper Shipping Name**: PETROLEUM DISTILLATES, N.O.S.





03/15/2022 EN (English US) 7/9

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations US GHS SDS

Packing Group : III
Identification Number : UN1268
Hazard Class : 3
Label Codes : 3
ERG Code (IATA) : 3L



# **SECTION 15: REGULATORY INFORMATION**

# 15.1. US Federal Regulations

All components in this mixture are listed on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, have been exempted, are not listed, not disclosed due to CBI requirements or disclosure rules according to the relevant regulation.

regulation.			
Marvel Mystery Oil			
SARA Section 311/312 Hazard Classes	Health hazard - Specific target organ toxicity (single or repeated exposure)  Health hazard - Reproductive toxicity  Health hazard - Skin corrosion or Irritation  Physical hazard - Flammable (gases, aerosols, liquids, or solids)		
	Health hazard - Aspiration hazard		
o-Dichlorobenzene (95-50-1)	The state of the s		
, ,			
Subject to reporting requirements of United State	es SARA Section 313		
CERCLA RQ	100 lb		
SARA Section 313 - Emission Reporting	1 %		
p-Dichlorobenzene (106-46-7)			
Subject to reporting requirements of United State	es SARA Section 313		
CERCLA RQ	100 lb		
SARA Section 313 - Emission Reporting	0.1 %		
Phosphoric acid, tris(methylphenyl) esters (1330	0-78-5)		
EPA TSCA Regulatory Flag	TP - TP - indicates a substance that is the subject of a proposed		
	Section 4 test rule under TSCA.		

# 15.2. US State Regulations

#### o-Dichlorobenzene (95-50-1)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. Pennsylvania RTK (Right to Know) List

### p-Dichlorobenzene (106-46-7)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. Pennsylvania RTK (Right to Know) Special Hazardous Substances
- U.S. Pennsylvania RTK (Right to Know) List

# Phosphoric acid, tris(methylphenyl) esters (1330-78-5)

U.S. - New Jersey - Right to Know Hazardous Substance List

# **California Proposition 65**



**WARNING:** This product can expose you to p-Dichlorobenzene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Chemical Name (CAS No.)	Carcinogenicity	Developmental Toxicity	Female Reproductive Toxicity	Male Reproductive Toxicity
p-Dichlorobenzene (106-46-7)	Х			

# SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Date of Preparation or Latest Revision : 03/15/2022

Discontinued Product SKUs : MM003, MM007, MM08, MM010, MM011, MM012R, MM013R, MM014R, MM015,

MM016, MM017, MM018, MM613, MM005

Other Information : This document has been prepared in accordance with the SDS requirements of the

OSHA Hazard Communication Standard 29 CFR 1910.1200

03/15/2022 EN (English US) 8/9

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations US GHS SDS

> The specific chemical identity and/or exact percentage of composition have been withheld as a trade secret [29 CFR 1910.1200].

#### **GHS Full Text Phrases:**

Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1		
Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2		
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1		
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2		
Asp. Tox. 1	Aspiration hazard Category 1		
Flam. Liq. 3	Flammable liquids Category 3		
Repr. 2	Reproductive toxicity Category 2		
Skin Irrit. 2	Skin corrosion/irritation Category 2		
STOT SE 3	Specific target organ toxicity (single exposure) Category 3		
H226	Flammable liquid and vapor		
H304	May be fatal if swallowed and enters airways		
H315	Causes skin irritation		
H336	May cause drowsiness or dizziness		
H361	Suspected of damaging fertility or the unborn child		
H400	Very toxic to aquatic life		
H401	Toxic to aquatic life		
H410	Very toxic to aquatic life with long lasting effects		
H411	Toxic to aquatic life with long lasting effects		

**NFPA Health Hazard** 

: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

**NFPA Fire Hazard** 

: 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.

**NFPA Reactivity Hazard** 

: 0 - Material that in themselves are normally stable, even under fire conditions.

**HMIS III Rating** 

: 2 Moderate Hazard Health

\* Chronic

**Flammability** : 2 Moderate Hazard **Physical** : 0 Minimal Hazard



This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any particular conditions or process. Such information is, to the best of our knowledge and belief, accurate and reliable as of the date issued. No warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the responsibility of the user or processor to satisfy themselves as to the suitability of such information for their own particular circumstances, conditions or use, including transportation, storage and disposal which are outside of our control.

SDS US (GHS HazCom)

03/15/2022 EN (English US) 9/9





# **Safety Data Sheet**

Copyright, 2023, Meguiar's Inc.

All rights reserved. Copying and/or downloading of this information for the purpose of properly utilizing Meguiar's Inc. products is allowed provided that: (1) the information is copied in full with no changes unless prior written agreement is obtained from Meguiar's Inc., and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

Document Group:41-4680-9Version Number:1.04Issue Date:11/09/23Supercedes Date:11/15/21

# **SECTION 1: Identification**

#### 1.1. Product identifier

Gold Class<sup>TM</sup> Cleaner & Conditioner (Rich Leather) G179 [G17914]

#### **Product Identification Numbers**

LB-1100-2886-0

#### 1.2. Recommended use and restrictions on use

# Recommended use

Automotive, Cleans, conditions and protects fine leather

1.3. Supplier's details

MANUFACTURER: Meguiar's, Inc. DIVISION: Meguiar's

Automotive Aftermarket

**ADDRESS:** 213 Technology Dr, Irvine, CA 92618

**Telephone:** 1-800-347-5700

#### 1.4. Emergency telephone number

CHEMTREC 1-800-424-9300 (24 hours)

# **SECTION 2: Hazard identification**

The label elements below were prepared in accordance with OSHA Hazard Communication Standard, 29 CFR 1910.1200. This information may be different from the actual product label information for labels regulated by other agencies.

#### 2.1. Hazard classification

Not classified as hazardous according to OSHA Hazard Communication Standard, 29 CFR 1910.1200.

# 2.2. Label elements

#### Signal word

Not applicable.

**Symbols** 

\_\_\_\_\_

Not applicable.

#### **Pictograms**

Not applicable.

# **SECTION 3: Composition/information on ingredients**

Ingredient	C.A.S. No.	% by Wt
Non-Hazardous Ingredients	Mixture	80 - 100 Trade Secret *

<sup>\*</sup>The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

# **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### Inhalation:

No need for first aid is anticipated. If symptoms develop, remove the affected person to fresh air. Get medical attention.

#### **Skin Contact:**

If exposed, wash with soap and water. If signs/symptoms develop, get medical attention.

#### **Eve Contact:**

If exposed, flush eyes with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms develop, get medical attention.

#### If Swallowed:

Rinse mouth. If you feel unwell, get medical attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

No critical symptoms or effects. See Section 11.1, information on toxicological effects.

# 4.3. Indication of any immediate medical attention and special treatment required

Not applicable

# **SECTION 5: Fire-fighting measures**

#### 5.1. Suitable extinguishing media

In case of fire: Use a carbon dioxide or dry chemical extinguisher to extinguish.

#### 5.2. Special hazards arising from the substance or mixture

Closed containers exposed to heat from fire may build pressure and explode.

#### **Hazardous Decomposition or By-Products**

<u>Substance</u>	<u>Condition</u>
Aldehydes	During Combustion
Formaldehyde	During Combustion
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion
Irritant Vapors or Gases	During Combustion

#### 5.3. Special protective actions for fire-fighters

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering

for exposed areas of the head.

# **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

Ventilate the area with fresh air. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

#### 6.2. Environmental precautions

Avoid release to the environment. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

#### 6.3. Methods and material for containment and cleaning up

Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Keep out of reach of children. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

# 7.2. Conditions for safe storage including any incompatibilities

Protect from sunlight. Store away from heat. Store away from acids. Store away from oxidizing agents.

# **SECTION 8: Exposure controls/personal protection**

# 8.1. Control parameters

#### Occupational exposure limits

No occupational exposure limit values exist for any of the components listed in Section 3 of this SDS.

#### 8.2. Exposure controls

### 8.2.1. Engineering controls

Use in a well-ventilated area.

#### 8.2.2. Personal protective equipment (PPE)

#### Eye/face protection

None required.

#### Skin/hand protection

No chemical protective gloves are required.

### Respiratory protection

None required.

# **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Appearance

Physical state Liquid
Color Light Yellow

OdorPleasant OdorOdor thresholdNo Data Available

**pH** 8.2 - 9

Melting pointNo Data AvailableBoiling PointNo Data Available

Flash Point >= 200 °F [Test Method: Pensky-Martens Closed Cup]

Evaporation rateNo Data AvailableFlammability (solid, gas)Not ApplicableFlammable Limits(LEL)No Data AvailableFlammable Limits(UEL)No Data AvailableVapor PressureNo Data Available

Vapor Density No Data Available

**Density** 1.00 g/ml

Specific Gravity 1.00 [Ref Std:WATER=1]

**Solubility In Water** No Data Available

**Solubility- non-water** No Data Available

Partition coefficient: n-octanol/ water No Data Available **Autoignition temperature** No Data Available **Decomposition temperature** No Data Available Viscosity 6,000 - 8,000 centipoise Molecular weight No Data Available 0.0 % weight **Volatile Organic Compounds** Percent volatile No Data Available No Data Available **VOC Less H2O & Exempt Solvents** 

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

#### 10.2. Chemical stability

Stable.

#### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

#### 10.4. Conditions to avoid

Heat

### 10.5. Incompatible materials

Strong acids

Strong oxidizing agents

# 10.6. Hazardous decomposition products

# **Substance**

**Condition** 

None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

# **SECTION 11: Toxicological information**

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

# 11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

#### Inhalation:

No known health effects.

# **Skin Contact:**

Contact with the skin during product use is not expected to result in significant irritation.

# **Eye Contact:**

Contact with the eyes during product use is not expected to result in significant irritation.

#### Ingestion

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

#### **Toxicological Data**

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

#### **Acute Toxicity**

Titute I thicity			
Name	Route	Species	Value
Overall product	Dermal		No data available; calculated ATE >5,000 mg/kg
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

For the component/components, either no data are currently available or the data are not sufficient for classification.

#### Serious Eye Damage/Irritation

For the component/components, either no data are currently available or the data are not sufficient for classification.

#### **Skin Sensitization**

For the component/components, either no data are currently available or the data are not sufficient for classification.

#### **Respiratory Sensitization**

For the component/components, either no data are currently available or the data are not sufficient for classification.

### **Germ Cell Mutagenicity**

#### Carcinogenicity

For the component/components, either no data are currently available or the data are not sufficient for classification.

For the component/components, either no data are currently available or the data are not sufficient for classification.

### **Reproductive Toxicity**

#### Reproductive and/or Developmental Effects

For the component/components, either no data are currently available or the data are not sufficient for classification.

# Target Organ(s)

# Specific Target Organ Toxicity - single exposure

For the component/components, either no data are currently available or the data are not sufficient for classification.

# Specific Target Organ Toxicity - repeated exposure

For the component/components, either no data are currently available or the data are not sufficient for classification.

#### **Aspiration Hazard**

For the component/components, either no data are currently available or the data are not sufficient for classification.

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

# **SECTION 12: Ecological information**

# **Ecotoxicological information**

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

#### **Chemical fate information**

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

# **SECTION 13: Disposal considerations**

#### 13.1. Disposal methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

# **SECTION 14: Transport Information**

For Transport Information, please visit http://3M.com/Transportinfo or call 1-800-364-3577 or 651-737-6501

# **SECTION 15: Regulatory information**

# 15.1. US Federal Regulations

#### Gold Class<sup>™</sup> Cleaner & Conditioner (Rich Leather) G179 [G17914] 11/09/23

Contact manufacturer for more information

#### **EPCRA 311/312 Hazard Classifications:**

Physical Hazards

Not applicable

**Health Hazards** 

Not applicable

# 15.2. State Regulations

Contact manufacturer for more information

#### 15.3. Chemical Inventories

The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

Contact manufacturer for more information

#### 15.4. International Regulations

Contact manufacturer for more information

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

# **SECTION 16: Other information**

#### NFPA Hazard Classification

Health: 0 Flammability: 1 Instability: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

 Document Group:
 41-4680-9
 Version Number:
 1.04

 Issue Date:
 11/09/23
 Supercedes Date:
 11/15/21

DISCLAIMER: The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued. Meguiar's Inc. MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the Meguiar's Inc. product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a Meguiar's Inc. product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the Meguiar's Inc. product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

Meguiar's Inc. provides information in electronic form as a service to its customers. Due to the remote possibility that electronic transfer may have resulted in errors, omissions or alterations in this information, Meguiar's Inc. makes no representations as to its completeness or accuracy. In addition, information obtained from a database may not be as current as the information in the SDS available directly from Meguiar's Inc.

Meguiar's, Inc. USA SDSs are available at www.Meguiars.com

# AIKEN CHEMICAL COMPANY, INC. Safety Data Sheet Waterless Hand Cleaner

# **SECTION 1: Identification**

#### 1.1 Product identifier

Product name Waterless Hand Cleaner

Product number 5000, 5005 Brand Mac's

#### 1.2 Other means of identification

White to off-White Crème

# 1.3 Recommended use of the chemical and restrictions on use

To clean grease off of hands and skin.

Do not use on face.

# 1.4 Supplier's details

Name Aiken Chemical Company, Inc.

Address P.O. Box 27147

Greenville, SC 29616

USA

Telephone 864-968-1250 Fax 864-968-1252

email donnie@clean-rite.com

**1.5 Emergency phone number(s)** 800-424-9300

# **SECTION 2: Hazard identification**

#### 2.1 Classification of the substance or mixture

- Eye damage/irritation (C.4.5), Cat. 2A

# 2.2 GHS label elements, including precautionary statements

#### **Pictogram**



Signal word Warning

Hazard statement(s)

H319 Causes serious eye irritation

Precautionary statement(s)

P264 Wash skin thoroughly after handling. P280 Wear eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

# **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

# **Hazardous components**

1. Hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics

Concentration 30 - 40 % (weight) CAS no. 64742-47-8

2. White mineral oil, petroleum

Concentration 1 - 10 % (weight) CAS no. 8042-47-5

3. Fatty acids, tall-oil

Concentration 1 - 10 % (weight) CAS no. 61790-12-3

4. Poly(oxy-1,2-ethanediyl), alpha-(2-propylheptyl)-omega-hydroxy-

Concentration 1 - 5 % (weight) CAS no. 160875-66-1

5. 1,2-PROPANEDIOL

Concentration 1 - 5 % (weight)

CAS no. 57-55-6

# **SECTION 4: First-aid measures**

#### 4.1 Description of necessary first-aid measures

General advice In the case of accident or if you feel unwell, seek medical advice

immediately. When symptoms persist or in all cases of doubt seek medical

advice.

In case of skin contact Wash with water and soap as a precaution. Get medical attention if irritation

develops and persists.

In case of eye contact In case of contact, immediately flush eyes with plenty of water for at least 15

minutes. If easy to do, remove contact lens, if worn. Seek medical attention.

If swallowed, DO NOT induce vomiting. Get medical attention if symptoms

occur. Rinse mouth thoroughly with water.

Personal protective equipment for first-aid responders

First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for

exposure exists.

# 4.2 Most important symptoms/effects, acute and delayed

Prolonged or repeated contact may dry skin and cause irritation. Causes serious eye irritation.

# 4.3 Indication of immediate medical attention and special treatment needed, if necessary

No data available.

# **SECTION 5: Fire-fighting measures**

### 5.1 Suitable extinguishing media

Water spray, Alcohol-resistant foam, Dry chemical Carbon dioxide (CO2). Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers.

### 5.2 Specific hazards arising from the chemical

No data available.

# 5.3 Special protective actions for fire-fighters

In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

#### **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Material can create slippery conditions.

# 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

#### 6.3 Methods and materials for containment and cleaning up

SMALL SPILLS: Contain and absorb with absorbent material and place into containers for later disposal. Wash site of spillage thoroughly with water. LARGE SPILLS: Dike far ahead of spill to prevent further movement. Recover by pumping or by using a suitable absorbent material and place into containers for later disposal. Dispose in suitable waste container.

# **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

Ensure adequate ventilation. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. For precautions see section 2.2.

#### 7.2 Conditions for safe storage, including any incompatibilities

Keep in properly labeled containers. Store in accordance with the particular national regulations. Do not store with the following product types: Strong oxidizing agents

# **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

# 1. Hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics (CAS: 64742-46-8)

PEL-TWA: 5 mg/m3 (OSHA) Total Ketrul D 95 SDS

REL-TWA: 5 mg/m3 (NIOSH)

Total Ketrul D 95 SDS

Total Ketrul D 95 SDS

STEL: 10 mg/m3 (NIOSH) Total Ketrul D 95 SDS TWA: 5 mg/m3 (ACGIH)

# 2. White mineral oil, petroleum (CAS: 8042-47-5)

TWA: 5 mg/m3: USA (OSHA)

USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants

TWA: 5 mg/m3; USA (NIOSH) USA. NIOSH Recommended

# Safety Data Sheet Mac's Waterless Hand Cleaner

**Exposure Limits** 

ST: 10 mg/m3; USA (NIOSH)

USA. NIOSH Recommended Exposure Limits

TWA: 5 mg/m3; USA (ACGIH) USA. ACGIH Threshold Limit Values

(TLV)

PEL-C: 5 mg/m3 (Cal/OSHA)

California permissible exposure limits for chemical contaminants b(Title 8, Article 107)

# 3. Fatty acids, tall-oil (CAS: 61790-12-3)

TWA (Inhalation): 5 mg/m3 (OSHA)
STEL (Inhalation): 10 mg/m3 (ACGIH)
TWA (Inhalation): 5 mg/m3 (ACGIH)

### 8.2 Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations. In addition to substance-specific OELs, general limitations of concentrations of particulates in the air at workplaces have to be considered in workplace risk assessment. Relevant limits include: OSHA PEL for Particulates Not Otherwise Regulated of 15 mg/m3 - total dust, 5 mg/m3 - respirable fraction; and ACGIH TWA for Particles (insoluble or poorly soluble) Not Otherwise Specified of 3 mg/m3 - respirable particles, 10 mg/m3 - inhalable particles.

# 8.3 Individual protection measures, such as personal protective equipment (PPE)

#### **Pictograms**



#### Eye/face protection

Distribution, Workplace and Household Settings: No special protective equipment required. Product Manufacturing Plant (needed at Product-Producing Plant ONLY): Use appropriate eye protection.

### Skin protection

Distribution, Workplace and Household Settings: No special protective equipment required. Product Manufacturing Plant (needed at Product-Producing Plant ONLY): Protective gloves.

# **Body protection**

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

Distribution, Workplace and Household Settings: No special protective equipment required. Product Manufacturing Plant (needed at Product-Producing Plant ONLY): In case of insufficient ventilation wear suitable respiratory equipment

# Thermal hazards

No data available.

#### **Environmental exposure controls**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

# **SECTION 9: Physical and chemical properties**

# Safety Data Sheet Mac's Waterless Hand Cleaner

### Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.) White to Off-White Crème

Odor Fresh

Odor threshold No data available.

pH 7.5 - 8.5 Melting point/freezing point  $\sim 0^{\circ}\text{C}$  (32 °F)

Initial boiling point and boiling range

Flash point

Flash point

Evaporation rate

Flammability (solid, gas)

Upper/lower flammability limits

Inper/lower explosive limits

No data available.

No data available.

No data available.

No data available.

Upper/lower explosive limits
Vapor pressure
Vapor density
Relative density
Solubility(ies)
No data available.
No data available.
No data available.
No data available.
Water: Complete

Partition coefficient: n-octanol/water

No data available.

Auto-ignition temperature

Decomposition temperature

Viscosity

No data available.

No data available.

1.5 - 2.5 mcP

Explosive properties

Oxidizing properties

No data available.

No data available.

# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

None under normal use conditions.

#### 10.2 Chemical stability

Stable under recommended storage conditions.

# 10.3 Possibility of hazardous reactions

None under normal use conditions.

#### 10.4 Conditions to avoid

None under normal use conditions.

# 10.5 Incompatible materials

Strong oxidizing agents

# 10.6 Hazardous decomposition products

No hazardous decomposition products are known.

# **SECTION 11: Toxicological information**

# Information on toxicological effects

# **Acute toxicity**

#### **Product:**

Not Classified based on available information.

Acute toxicity estimate: > 5,000 mg/kg

Method: Calculation

# Safety Data Sheet Mac's Waterless Hand Cleaner

### Ingredients:

----

Hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics: LD50 > 5000 mg/kg bw (rat - OECD 401)

LD50 (24h) > 3160 mg/kg bw (rabbit - OECD 402)

LC50 (4h) > 5266 mg/m3 (aerosol) (rat - OECD 403)

----

White mineral oil, petroleum: LD50 Oral - Rat - male and female - > 5,000 mg/kg (OECD Test Guideline 401) LC50 Inhalation - Rat - male and female - 4 h - > 5 mg/l (OECD Test Guideline 403)

LD50 Dermal - Rabbit - male and female - > 2,000 mg/kg (OECD Test Guideline 402)

----

Fatty acids, tall-oil: LD50 Oral Rat > 10000 mg/kg

LD50 Skin Rabbit > 2000 mg/kg

#### Skin corrosion/irritation

Not classified based on available information.

**Product:** 

Result: No skin irritation

#### Ingredients:

----

Hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics: Skin - Rabbit Result: No skin irritation

Assessment: Repeated exposure may cause skin dryness or cracking.

----

White mineral oil, petroleum: Skin - Rabbit

Result: No skin irritation (OECD Test Guideline 404)

\_\_\_\_

Poly(oxy-1,2-ethanediyl), alpha-(2-propylheptyl)-omega-hydroxy-: Species: rabbit

Result: Irritant. Method: OECD Guideline 404

----

1,2-PROPANEDIOL: Skin - Rabbit

Result: No skin irritation - 4 h (OECD Test Guideline 404)

# Serious eye damage/irritation

#### **Product:**

Causes serious eye irritation.

# Ingredients:

----

Hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics: Eyes - Rabbit Result: No eye irritation

----

White mineral oil, petroleum: Eyes - Rabbit

Result: No eye irritation (OECD Test Guideline 405)

----

Poly(oxy-1,2-ethanediyl), alpha-(2-propylheptyl)-omega-hydroxy-: Species: rabbit

Result: Risk of serious damage to eyes. Method: OECD Guideline 405

----

1,2-PROPANEDIOL: Eyes - Rabbit

# Safety Data Sheet Mac's Waterless Hand Cleaner

Result: Mild eye irritation

### Respiratory or skin sensitization

#### **Product:**

Skin sensitization: Not classified based on available information.

Respiratory sensitization: Not classified based on available information.

#### Ingredients:

----

Hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics: Draize Test - Guinea pig Result: Does not cause skin sensitization.

----

White mineral oil, petroleum: Buehler Test - Guinea pig

Did not cause sensitization on laboratory animals. (OECD Test Guideline 406)

----

Poly(oxy-1,2-ethanediyl), alpha-(2-propylheptyl)-omega-hydroxy-: Assessment of sensitization: Based on the structure, there is no suspicion of a skin-sensitizing potential.

Guinea pig maximization test Species: guinea pig Result:

Skin sensitizing effects were not observed in animal studies. Method: OECD Guideline 406

#### Germ cell mutagenicity

#### Product:

Not classified based on available information.

#### Ingredients:

\_\_\_\_

Hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics: reverse mutation assay S. typhimurium Result: negative

----

White mineral oil, petroleum: in vitro assay S. typhimurium Result: negative

#### Carcinogenicity

#### **Product:**

Not classified based on available information

# Ingredients:

----

Hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

----

1,2-PROPANEDIOL: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

## Safety Data Sheet Mac's Waterless Hand Cleaner

#### Reproductive toxicity

**Product:** 

Not classified based on available information.

### STOT-single exposure

**Product:** 

Not classified based on available information.

#### STOT-repeated exposure

**Product:** 

Not classified based on available information.

#### **Aspiration hazard**

**Product:** 

No aspiration toxicity classification

#### Ingredients:

----

Hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

----

White mineral oil, petroleum:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

#### Additional information

----

Hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics: Prolonged or repeated exposure to skin causes defatting and dermatitis, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

----

White mineral oil, petroleum: Rat - female - Oral - NOAEL: 1,600 mg/kg - LOAEL: 160 mg/kg - OECD Test Guideline 408 RTECS: PY8047000

Aspiration may lead to: lipid pneumonia, Effects due to ingestion may include:, laxative effect, Gastrointestinal disturbance, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## **SECTION 12: Ecological information**

### Toxicity Ingredients:

----

Hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics:

Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - 2.9 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates static test EC50 - Daphnia magna (Water flea) - 1.4 mg/l - 48 h (OECD Test Guideline 202)

----

White mineral oil, petroleum:

Toxicity to fish static test LC50 - Oncorhynchus mykiss (rainbow trout) - > 100 mg/l - 96 h (OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates static test LC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (OECD Test Guideline 202)

## Safety Data Sheet Mac's Waterless Hand Cleaner

-----

Poly(oxy-1,2-ethanediyl), alpha-(2-propylheptyl)-omega-hydroxy-:

Aquatic invertebrates EC50 (48 h) > 10 - 100 mg/l, Daphnia magna Analogous: Assessment derived from products with similar chemical character. Aquatic plants EC50 (72 h) > 10 - 100 mg/l, Scenedesmus subspicatus Analogous: Assessment derived from products with similar chemical character. Chronic toxicity to fish No observed effect concentration > 1 mg/l Literature data. No data available concerning terrestrial toxicity.

### Persistence and degradability

Ingredients:

Hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics:

Result: Readily biodegradable.

Biodegradation: 82 % Exposure time: 24 d

Method: OECD Test Guideline 301F

----

White mineral oil (petroleum): Result: Not readily biodegradable.

Biodegradation: 31 % Exposure time: 28 d

----

Poly(oxy-1,2-ethanediyl), alpha-(2-propylheptyl)-omega-hydroxy-:

Biodegradability: Result: Readily biodegradable.

Biodegradation: 95 % Exposure time: 28 d

Method: OECD Test Guideline 301F

Remarks: Based on data from similar materials

----

Propylene glycol:

Biodegradability: Result: Readily biodegradable.

Biodegradation: 98.3 % Exposure time: 28 d

Method: OECD Test Guideline 301F

### **Bioaccumulative potential**

Ingredients:

Propylene glycol:

Partition coefficient: noctanol/water:

log Pow: -1.07

#### Mobility in soil

No data available.

#### Results of PBT and vPvB assessment

No data available.

## **SECTION 13: Disposal considerations**

#### Disposal of the product

Dispose of in accordance with local regulations.

### Disposal of contaminated packaging

Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal.

## **SECTION 14: Transport information**

## Safety Data Sheet Mac's Waterless Hand Cleaner

### DOT (US)

Not dangerous goods

#### **IMDG**

Not dangerous goods

#### **IATA**

Not dangerous goods

## **SECTION 15: Regulatory information**

## 15.1 Safety, health and environmental regulations specific for the product in question

#### California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

### **Massachusetts Right To Know Components**

Distillates (petroleum), hydrotreated light, kerosene - unspecified CAS-No. 64742-47-8

### **New Jersey Right To Know Components**

Distillates (petroleum), hydrotreated light, kerosene - unspecified

CAS-No. 64742-47-8

Mineral oil

CAS-No. 8042-47-5 PROPYLENE GLYCOL CAS number: 57-55-6

## Pennsylvania Right To Know Components

Distillates (petroleum), hydrotreated light, kerosene - unspecified

CAS-No. 64742-47-8

Mineral oil

CAS-No. 8042-47-5 PROPYLENE GLYCOL CAS number: 57-55-6

#### SARA 302 Components

This material does not contain any components with a section 302 EHS TPQ.

#### **SARA 311-312**

Hazard Categories): Acute

#### **SARA 313 Components**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### 15.2 Chemical Safety Assessment

NFPA (National Fire Protection Association)

HMIS (Hazardous Material Information System)

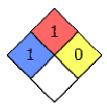
Hazards are split into categories each with a 0 to 4 rating, 0 meaning no hazard and 4 meaning high hazard

**HMIS Rating** 



## Safety Data Sheet Mac's Waterless Hand Cleaner

### **NFPA Rating**



### **SECTION 16: Other information**

Abbreviations, acronyms

ACGIH = American Conference of Governmental Industrial Hygienists

EC x =Effect Concentration associated with x% response

GLP = Good Laboratory Practice

IARC = International Agency for Research of Cancer

LC50 = 50% Lethal concentration - Concentration of a chemical in air or a chemical in water which causes the death of 50% (one

half) of a group of test animals

LD50 = 50% Lethal Dose - Chemical amount, given at once, which causes the death of 50% (one half) of a group of test animals

LL = Lethal Loading

NIOSH = National Institute of Occupational Safety and Health

NOAEL = No Observed Adverse Effect Level

NOEC = No Observed Effect Concentration

NOEL = No Observed Effect Level

OECD = Organization for Economic Co-operation and Development

OSHA = Occupational Safety and Health Administration

UVCB = Substance of unknown or Variable composition, Complex reaction products or Biological material

fw = fresh water

mw = marine water

SCBA = Self Contained Breathing Apparatus

Legend

Section 8

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH - National Institute for Occupational Safety and Health

TLV - Threshold Limit Values

PEL - Permissible Exposure Limits

IDHL - Immediately Dangerous to Life or Health concentrations

TWA - Time Weight Average

STEL - Short Term Exposure Limits

S\* - Skin notation

TSCA - Toxic Substance Control Act

#### 16.1 Further information/disclaimer

The information is based on our knowledge to date but does not constitute an assurance of product properties and does not imply a legal contractual relationship. Safety Data Sheet information is based on the individual ingredients Safety Data Sheets provided by the supplier.

### 16.2 Preparation information

Aiken Chemical Company, Inc.

P.O. Box 27147

Greenville, SC, 29616

864-968-1250

800-828-1860

864-968-1252 (fax)

## SAFETY DATA SHEET

1. Identification

Product number 1000028738

Product identifier 7212 NAPA STARTING FLUID 110Z 12PK DS

Company information NAPA Balkamp

2601 Stout Heritage Parkway Plainfield, IN 46168 United States

Company phone General Assistance 1-317-754-3900

Emergency telephone US 1-866-836-8855 Emergency telephone outside 1-952-852-4646

US

Version # 01

**Recommended use**Not available. **Recommended restrictions**None known.

## 2. Hazard(s) identification

Physical hazardsFlammable aerosolsCategory 1Health hazardsAcute toxicity, oralCategory 4Skin corrosion/irritationCategory 2Reproductive toxicity (fertility, the unbornCategory 2

child)

Specific target organ toxicity, single exposure Category 3 narcotic effects

Specific target organ toxicity, repeated

exposure

Aspiration hazard Category 1

OSHA defined hazards Not classified.

Label elements



Signal word Danger

**Hazard statement** Extremely flammable aerosol. Harmful if swallowed. May be fatal if swallowed and enters airways.

Causes skin irritation. May cause drowsiness or dizziness. Suspected of damaging the unborn child. Suspected of damaging fertility. May cause damage to organs through prolonged or

Category 2

repeated exposure.

**Precautionary statement** 

**Prevention** Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not breathe gas. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective

gloves/protective clothing/eye protection/face protection.

**Response** If swallowed: Immediately call a poison center/doctor. Rinse mouth. Do NOT induce vomiting. If

on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and keep comfortable for breathing. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. If skin irritation occurs: Get medical advice/attention. Take off contaminated

clothing and wash before reuse.

Storage Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from

sunlight. Do not expose to temperatures exceeding 50°C/122°F.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Supplemental information

None.

### 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Diethyl Ether		60-29-7	40 - 60
n-Hexane		110-54-3	10 - 20
Butylated Hydroxytoluene		128-37-0	2.5 - 10
Carbon Dioxide		124-38-9	2.5 - 10
n-Heptane		142-82-5	2.5 - 10
Cyclohexane		110-82-7	0.1 - 1
Toluene		108-88-3	0.1 - 1
Other components below reportable	e levels		20 - 40

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 4. First-aid measures

**Inhalation**Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

**Skin contact**Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get

medical advice/attention. Wash contaminated clothing before reuse.

**Eye contact** Rinse with water. Get medical attention if irritation develops and persists.

**Ingestion** Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If

vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms/effects, acute and delayed

Indication of immediate medical attention and special

treatment needed
General information

Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

#### 5. Fire-fighting measures

Suitable extinguishing media
Unsuitable extinguishing

media

Alcohol resistant foam. Powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

\_\_\_\_\_

Special protective equipment and precautions for firefighters

and precautions for firefign

equipment/instructions

Specific methods

General fire hazards

Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not breathe fumes.

Extremely flammable aerosol.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe gas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Product name: 7212 NAPA STARTING FLUID 11OZ 12PK DS Product #: 1000028738 Version #: 01 Issue date: 02-10-2016

# Methods and materials for containment and cleaning up

Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Prevent entry into waterways, sewer, basements or confined areas. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

#### **Environmental precautions**

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

### 7. Handling and storage

#### Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Do not breathe gas. Do not taste or swallow. Avoid contact with eyes, skin, and clothing. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

# Conditions for safe storage, including any incompatibilities

Level 1 Aerosol.

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122°F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store away from incompatible materials (see Section 10 of the SDS).

### 8. Exposure controls/personal protection

#### Occupational exposure limits

Components	Contaminants (29 CFR 1910.1 Type	Value	
Carbon Dioxide (CAS 124-38-9)	PEL	9000 mg/m3	
		5000 ppm	
Cyclohexane (CAS 110-82-7)	PEL	1050 mg/m3	
•		300 ppm	
Diethyl Ether (CAS 60-29-7)	PEL	1200 mg/m3	
		400 ppm	
n-Heptane (CAS 142-82-5)	PEL	2000 mg/m3	
,		500 ppm	
n-Hexane (CAS 110-54-3)	PEL	1800 mg/m3	
		500 ppm	
US. OSHA Table Z-2 (29 CFR 1910.	1000)	• •	
Components	Туре	Value	
Toluene (CAS 108-88-3)	Ceiling	300 ppm	
,	TWA	200 ppm	
US. ACGIH Threshold Limit Values			
Components	Туре	Value	Form
Butylated Hydroxytoluene (CAS 128-37-0)	TWA	2 mg/m3	Inhalable fraction and vapor.
Carbon Dioxide (CAS 124-38-9)	STEL	30000 ppm	·
•	TWA	5000 ppm	
Cyclohexane (CAS 110-82-7)	TWA	100 ppm	

Product name: 7212 NAPA STARTING FLUID 11OZ 12PK DS Product #: 1000028738 Version #: 01 Issue date: 02-10-2016

US. ACGIH Threshold Limit Values			
Components	Туре	Value Form	
Diethyl Ether (CAS 60-29-7)	STEL	500 ppm	
,	TWA	400 ppm	
n-Heptane (CAS 142-82-5)	STEL	500 ppm	
	TWA	400 ppm	
n-Hexane (CAS 110-54-3)	TWA	50 ppm	
Toluene (CAS 108-88-3)	TWA	20 ppm	
US. NIOSH: Pocket Guide to Chem	ical Hazards		
Components	Туре	Value	
Butylated Hydroxytoluene (CAS 128-37-0)	TWA	10 mg/m3	
Carbon Dioxide (CAS 124-38-9)	STEL	54000 mg/m3	
		30000 ppm	
	TWA	9000 mg/m3	
		5000 ppm	
Cyclohexane (CAS 110-82-7)	TWA	1050 mg/m3	
		300 ppm	
n-Heptane (CAS 142-82-5)	Ceiling	1800 mg/m3	
		440 ppm	
	TWA	350 mg/m3	
		85 ppm	
n-Hexane (CAS 110-54-3)	TWA	180 mg/m3	
		50 ppm	
Toluene (CAS 108-88-3)	STEL	560 mg/m3	
		150 ppm	
	TWA	375 mg/m3	
		100 ppm	

#### **Biological limit values**

ACGIH Biological Exposu Components	Value	Determinant	Specimen	Sampling Time
n-Hexane (CAS 110-54-3)	0.4 mg/l	2,5-Hexanedio n, without hydrolysis	Urine	*
Toluene (CAS 108-88-3)	0.3 mg/g	o-Cresol, with hydrolysis	Creatinine in urine	*
	0.03 mg/l	Toluene	Urine	*
	0.02 mg/l	Toluene	Blood	*

<sup>\* -</sup> For sampling details, please see the source document.

### **Exposure guidelines**

US - California OELs: Skin designation

n-Hexane (CAS 110-54-3)

Toluene (CAS 108-88-3)

Can be absorbed through the skin.

Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

Toluene (CAS 108-88-3) Skin designation applies.

**US ACGIH Threshold Limit Values: Skin designation** 

n-Hexane (CAS 110-54-3) Can be absorbed through the skin.

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

Product name: 7212 NAPA STARTING FLUID 110Z 12PK DS Product #: 1000028738 Version #: 01 Issue date: 02-10-2016 Skin protection

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove Hand protection

supplier.

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. Other

If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an Respiratory protection

air-supplied respirator.

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

General hygiene considerations

Observe any medical surveillance requirements. When using do not smoke. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

**Appearance** 

**Physical state** Gas. Aerosol. **Form** Not available. Color Odor Not available. Not available. **Odor threshold** Not available. pН Melting point/freezing point Not available.

Initial boiling point and boiling

range

-109.3 °F (-78.5 °C) estimated

-19.2 °F (-28.5 °C) estimated

**Evaporation rate** Not available. Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower

1.2 % estimated

(%)

Flash point

Flammability limit - upper

7.1 % estimated

(%)

Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available. Vapor pressure Not available. Not available. Vapor density Relative density Not available.

Solubility(ies)

Not available. Solubility (water) Partition coefficient Not available.

(n-octanol/water)

**Auto-ignition temperature** 564.8 °F (296 °C) estimated

**Decomposition temperature** Not available. **Viscosity** Not available.

Other information

Not explosive. **Explosive properties Oxidizing properties** Not oxidizing. 0.375 estimated Specific gravity

### 10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability** Material is stable under normal conditions. Possibility of hazardous Hazardous polymerization does not occur.

reactions

Product name: 7212 NAPA STARTING FLUID 11OZ 12PK DS

Conditions to avoid Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

**Hazardous decomposition** 

products

No hazardous decomposition products are known.

### 11. Toxicological information

Information on likely routes of exposure

Inhalation May cause damage to organs through prolonged or repeated exposure by inhalation. May cause

drowsiness and dizziness. Headache. Nausea, vomiting.

Skin contact Causes skin irritation.

Direct contact with eyes may cause temporary irritation. Eye contact

Ingestion Harmful if swallowed. Droplets of the product aspirated into the lungs through ingestion or

vomiting may cause a serious chemical pneumonia.

Symptoms related to the physical, chemical and toxicological characteristics Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness.

Headache. Nausea, vomiting. Skin irritation. May cause redness and pain.

Information on toxicological effects

May be fatal if swallowed and enters airways. Narcotic effects. **Acute toxicity** 

Components **Species Test Results** 

Butylated Hydroxytoluene (CAS 128-37-0)

Acute

**Dermal** 

LD50 Rat > 2000 mg/kg

> 2000 mg/kg, 4 wk (3 x/wk)

Oral

LD50 Mouse 2000 mg/kg

> Rat > 2930 mg/kg

Cyclohexane (CAS 110-82-7)

**Acute** 

Dermal

LD50 Rabbit > 2000 mg/kg

Inhalation

LC50 Rat > 32880 mg/m3, 4 Hours

> 5540 ppm, 4 Hours

Oral

LD50 Rabbit > 5000 mg/kg

> Rat > 5000 mg/kg

Diethyl Ether (CAS 60-29-7)

**Acute** 

**Dermal** 

LD50 Rabbit > 20000 mg/kg, 24 Hours

Inhalation

LC50 Mouse 31300 ppm, 90 Minutes 32000 ppm, 4 Hours

Rat

Rat 1200 mg/kg

n-Heptane (CAS 142-82-5)

**Acute** 

Oral LD50

**Dermal** 

LD50 Rabbit > 2000 mg/kg, 24 Hours

Inhalation

LC50 Rat > 29.29 mg/l, 4 Hours

Product name: 7212 NAPA STARTING FLUID 110Z 12PK DS Product #: 1000028738 Version #: 01 Issue date: 02-10-2016

Components	Species	Test Results
Oral		
LD50	Rat	> 5000 mg/kg
-Hexane (CAS 110-54-3)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 2000 mg/kg, 4 Hours
		> 5 ml/kg, 4 Hours
Inhalation		
LC50	Rat	> 5000 ppm, 24 Hours
		> 31.86 mg/l
		73860 ppm, 4 Hours
Oral		
LD50	Rat	24 g/kg
		24 ml/kg
	Wistar rat	49 g/kg
oluene (CAS 108-88-3)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 5000 mg/kg, 24 Hours
Inhalation		
LC50	Mouse	6405 - 7436 ppm, 6 Hours
		5320 ppm, 8 Hours
	Rat	5879 - 6281 ppm, 6 Hours
		25.7 mg/l, 4 Hours
Oral		
LD50	Rat	> 5000 mg/kg

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

**Skin corrosion/irritation** Causes skin irritation.

Serious eye damage/eye

irritation

Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

Butylated Hydroxytoluene (CAS 128-37-0)

3 Not classifiable as to carcinogenicity to humans.

Toluene (CAS 108-88-3)

3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

**US. National Toxicology Program (NTP) Report on Carcinogens** 

Not available.

**Reproductive toxicity** Suspected of damaging fertility. Suspected of damaging the unborn child.

Specific target organ toxicity -

single exposure

May cause drowsiness and dizziness.

Specific target organ toxicity -

repeated exposure

Respiratory system. Skin. Central nervous system. Eyes. Peripheral nervous system. May cause

damage to organs through prolonged or repeated exposure.

**Aspiration hazard** May be fatal if swallowed and enters airways.

**Chronic effects** May cause damage to organs through prolonged or repeated exposure.

### 12. Ecological information

**Ecotoxicity** Toxic to aquatic life with long lasting effects.

	Species	Test Results
ne (CAS 128-37-0	))	
IC50	Algae	6 mg/L, 72 Hours
EC50	Water flea (Daphnia pulex)	1.44 mg/l, 48 hours
)-82-7)		
LC50	Fathead minnow (Pimephales promelas)	23.03 - 42.07 mg/l, 96 hours
29-7)		
LC50	Fathead minnow (Pimephales promelas)	2560 mg/l, 96 hours
2-5)		
LC50	Mozambique tilapia (Tilapia mossambica)	375 mg/l, 96 hours
l-3)		
LC50	Fathead minnow (Pimephales promelas)	2.101 - 2.981 mg/l, 96 hours
3)		
IC50	Algae	433.0001 mg/L, 72 Hours
EC50	Daphnia	7.645 mg/L, 48 Hours
	Water flea (Daphnia magna)	5.46 - 9.83 mg/l, 48 hours
LC50	Coho salmon,silver salmon (Oncorhynchus kisutch)	8.11 mg/l, 96 hours
1	IC50 EC50 0-82-7) LC50 29-7) LC50 2-5) LC50 I-3) LC50 BC50	IC50 Algae EC50 Water flea (Daphnia pulex)  1-82-7)  LC50 Fathead minnow (Pimephales promelas)  29-7)  LC50 Fathead minnow (Pimephales promelas)  2-5)  LC50 Mozambique tilapia (Tilapia mossambica)  1-3)  LC50 Fathead minnow (Pimephales promelas)  3)  LC50 Algae EC50 Daphnia Water flea (Daphnia magna) LC50 Coho salmon,silver salmon

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Persistence and degradability No

No data is available on the degradability of this product.

### Bioaccumulative potential

Partition coefficien	t n-octanol	/ water (	log Kow)
----------------------	-------------	-----------	----------

Cyclohexane	 3.44
Diethyl Ether	0.89
n-Heptane	4.66
n-Hexane	3.9
Toluene	2.73

Mobility in soil No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

### 13. Disposal considerations

**Disposal instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents

under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international

regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Product name: 7212 NAPA STARTING FLUID 110Z 12PK DS Product #: 1000028738 Version #: 01 Issue date: 02-10-2016

#### Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

### 14. Transport information

DOT

UN1950 **UN** number

UN proper shipping name Aerosols, flammable, (each not exceeding 1 L capacity)

Transport hazard class(es)

Class 2.1 Subsidiary risk 2.1 Label(s)

Packing group Not applicable.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Read safety

instructions, SDS and emergency procedures before handling.

Special provisions Packaging exceptions 306 Packaging non bulk None None Packaging bulk

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking and both may be displayed concurrently.

**IATA** 

UN1950 **UN** number

**UN** proper shipping name Aerosols, flammable

Transport hazard class(es)

Class 2.1 Subsidiary risk Label(s) 2.1

Packing group Not applicable.

**Environmental hazards** Yes **ERG Code** 10L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Read safety

instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only Allowed with restrictions.

**Packaging Exceptions** LTD QTY

**IMDG** 

UN1950 **UN** number UN proper shipping name **AEROSOLS** 

Transport hazard class(es)

Class 2.1 Subsidiary risk Label(s) 2.1

Packing group Not applicable.

**Environmental hazards** 

Marine pollutant Yes F-D. S-U

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Read safety

instructions, SDS and emergency procedures before handling.

**Packaging Exceptions** LTD QTY Transport in bulk according to Annex II of MARPOL 73/78 and

Not applicable.

the IBC Code

Product name: 7212 NAPA STARTING FLUID 11OZ 12PK DS Product #: 1000028738 Version #: 01 Issue date: 02-10-2016



IATA; IMDG



### Marine pollutant



**General information** 

IMDG Regulated Marine Pollutant.

### 15. Regulatory information

**US federal regulations** 

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

#### **CERCLA Hazardous Substance List (40 CFR 302.4)**

Cyclohexane (CAS 110-82-7)

Diethyl Ether (CAS 60-29-7)

n-Hexane (CAS 110-54-3)

Toluene (CAS 108-88-3)

Listed.

Listed.

Listed.

### SARA 304 Emergency release notification

Not regulated.

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

#### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous N

No

chemical

Product name: 7212 NAPA STARTING FLUID 110Z 12PK DS
Product #: 1000028738 Version #: 01 Issue date: 02-10-2016

#### SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
n-Hexane	110-54-3	10 - 20	
Cyclohexane	110-82-7	0.1 - 1	
Toluene	108-88-3	0.1 - 1	

#### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

n-Hexane (CAS 110-54-3) Toluene (CAS 108-88-3)

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Diethyl Ether (CAS 60-29-7)

Safe Drinking Water Act

Not regulated.

(SDWA)

# Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Diethyl Ether (CAS 60-29-7) 6584 Toluene (CAS 108-88-3) 6594

#### Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Diethyl Ether (CAS 60-29-7) 35 %WV Toluene (CAS 108-88-3) 35 %WV

**DEA Exempt Chemical Mixtures Code Number** 

Diethyl Ether (CAS 60-29-7) 6584 Toluene (CAS 108-88-3) 594

#### **US** state regulations

### US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

## US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.

(a))

n-Hexane (CAS 110-54-3) Toluene (CAS 108-88-3)

#### **US. Massachusetts RTK - Substance List**

Butylated Hydroxytoluene (CAS 128-37-0)

Carbon Dioxide (CAS 124-38-9) Cyclohexane (CAS 110-82-7)

Diethyl Ether (CAS 60-29-7) n-Heptane (CAS 142-82-5)

n-Hexane (CAS 110-54-3)

Toluene (CAS 108-88-3)

#### US. New Jersey Worker and Community Right-to-Know Act

Butvlated Hydroxytoluene (CAS 128-37-0)

Carbon Dioxide (CAS 124-38-9)

Cyclohexane (CAS 110-82-7)

Diethyl Ether (CAS 60-29-7)

n-Heptane (CAS 142-82-5)

n-Hexane (CAS 110-54-3)

Toluene (CAS 108-88-3)

#### US. Pennsylvania Worker and Community Right-to-Know Law

Butylated Hydroxytoluene (CAS 128-37-0)

Carbon Dioxide (CAS 124-38-9)

Cyclohexane (CAS 110-82-7)

Diethyl Ether (CAS 60-29-7)

n-Heptane (CAS 142-82-5)

n-Hexane (CAS 110-54-3)

Toluene (CAS 108-88-3)

#### **US. Rhode Island RTK**

Cyclohexane (CAS 110-82-7)

Diethyl Ether (CAS 60-29-7)

n-Hexane (CAS 110-54-3)

Toluene (CAS 108-88-3)

Product name: 7212 NAPA STARTING FLUID 11OZ 12PK DS Product #: 1000028738 Version #: 01 Issue date: 02-10-2016

#### **US. California Proposition 65**

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

#### US - California Proposition 65 - CRT: Listed date/Developmental toxin

Toluene (CAS 108-88-3) Listed: January 1, 1991

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing

Toxic Substances Control Act (TSCA) Inventory

country(s).

### 16. Other information, including date of preparation or last revision

**Issue date** 02-10-2016

Version # 01

United States & Puerto Rico

**Disclaimer** The information provided in this Safety Data Sheet is correct to the best of our knowledge,

information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other

materials or in any process, unless specified in the text.

Revision information Product and Company Identification: Alternate Trade Names

Product name: 7212 NAPA STARTING FLUID 11OZ 12PK DS Product #: 1000028738 Version #: 01 Issue date: 02-10-2016 Yes

# SAFETY DATA SHEET

## 1. Identification

1000028758 **Product number** 

9 OZ MACS 1413 DRY GRAPH FLM LUB LT 12PK **Product identifier** 

NAPA Balkamp **Company information** 

2601 Stout Heritage Parkway Plainfield, IN 46168 United States

General Assistance 1-317-754-3900 Company phone

**Emergency telephone US Emergency telephone outside**  1-866-836-8855

US

1-952-852-4646

01 Version #

**LUBRICANT** Recommended use **Recommended restrictions** None known.

## 2. Hazard(s) identification

Flammable aerosols **Physical hazards** Category 1 **Health hazards** Acute toxicity, inhalation Category 4 Skin corrosion/irritation Category 2 Serious eye damage/eye irritation

Category 2 Reproductive toxicity Category 2

Specific target organ toxicity, single exposure Category 3 narcotic effects

Category 1 Aspiration hazard

## **OSHA** defined hazards

Label elements



Not classified.





Signal word Danger

**Hazard statement** Extremely flammable aerosol. May be fatal if swallowed and enters airways. Causes skin irritation.

Causes serious eye irritation. Harmful if inhaled. May cause drowsiness or dizziness. Suspected

of damaging fertility or the unborn child.

**Precautionary statement** 

**Prevention** Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Avoid breathing gas. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin: Wash Response

with plenty of water. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before

reuse.

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from Storage

sunlight. Do not expose to temperatures exceeding 50°C/122°F.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazardous to the aquatic environment, acute Category 2 **Environmental hazards** 

hazard

Hazardous to the aquatic environment.

long-term hazard

Hazard(s) not otherwise classified (HNOC)

None known.

**Supplemental information** 

None.

## 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Isobutane		75-28-5	20 - 40
Acetone		67-64-1	10 - 20
Heptane, branched, cyclic and linear		426260-76-6	10 - 20
Naphtha (petroleum), Hydrotreated Light		64742-49-0	10 - 20
Propane		74-98-6	10 - 20
Solvent Naphtha (Petroleum), Light Aliphatic		64742-89-8	10 - 20
Cyclohexane		110-82-7	2.5 - 10
Graphite		7782-42-5	2.5 - 10
n-Hexane		110-54-3	0.1 - 1
Octane		111-65-9	0.1 - 1
Other components below reportable I	evels		0.1 - 1

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

## 4. First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or

artificial respiration if needed. Call a POISON CENTER or doctor/physician if you feel unwell.

Category 2

Skin contact Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get

medical advice/attention. Wash contaminated clothing before reuse.

If eye irritation persists: Get medical advice/attention. Eye contact

Call a physician or poison control center immediately. Do not induce vomiting. If vomiting occurs, Ingestion

Alcohol resistant foam. Powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

keep head low so that stomach content doesn't get into the lungs.

Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

**General information** 

Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor in attendance.

## 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Specific hazards arising from

the chemical

Special protective equipment and precautions for firefighters

Fire fighting equipment/instructions Contents under pressure. Pressurized container may explode when exposed to heat or flame.

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Move containers from fire area if you can do so without risk. Containers should be cooled with

water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do **Specific methods** not breathe fumes.

General fire hazards Extremely flammable aerosol.

Product name: 9 OZ MACS 1413 DRY GRAPH FLM LUB LT 12PK Product #: 1000028758 Version #: 01 Issue date: 01-19-2017

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing gas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Use water spray to reduce vapors or divert vapor cloud drift. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Prevent entry into waterways, sewer, basements or confined areas. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so.

## 7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Avoid breathing gas. Avoid contact with eyes, skin, and clothing. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Level 3 Aerosol.

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

\/\_l...

## 8. Exposure controls/personal protection

## **Occupational exposure limits**

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)** 

Components	Туре	Value	
Acetone (CAS 67-64-1)	PEL	2400 mg/m3	
		1000 ppm	
Cyclohexane (CAS 110-82-7)	PEL	1050 mg/m3	
		300 ppm	
n-Hexane (CAS 110-54-3)	PEL	1800 mg/m3	
		500 ppm	
Octane (CAS 111-65-9)	PEL	2350 mg/m3	
		500 ppm	
Propane (CAS 74-98-6)	PEL	1800 mg/m3	
		1000 ppm	
US. OSHA Table Z-3 (29 CFR 1910	0.1000)		
Components	Туре	Value	
Graphite (CAS 7782-42-5)	TWA	15 mppcf	
<b>US. ACGIH Threshold Limit Value</b>	es ·		
Components	Type	Value	Form
Acetone (CAS 67-64-1)	STEL	500 ppm	
	TWA	250 ppm	
Cyclohexane (CAS 110-82-7)	TWA	100 ppm	

<b>US. ACGIH</b>	Threshold	<b>Limit Values</b>
------------------	-----------	---------------------

Components	Туре	Value	Form
Graphite (CAS 7782-42-5)	TWA	2 mg/m3	Respirable fraction.
sobutane (CAS 75-28-5)	STEL	1000 ppm	
n-Hexane (CAS 110-54-3)	TWA	50 ppm	
Octane (CAS 111-65-9)	TWA	300 ppm	
JS. NIOSH: Pocket Guide to Chemi	ical Hazards		
Components	Туре	Value	Form
Acetone (CAS 67-64-1)	TWA	590 mg/m3	
		250 ppm	
Cyclohexane (CAS I 10-82-7)	TWA	1050 mg/m3	
·		300 ppm	
Graphite (CAS 7782-42-5)	TWA	2.5 mg/m3	Respirable.
sobutane (CAS 75-28-5)	TWA	1900 mg/m3	
		800 ppm	
n-Hexane (CAS 110-54-3)	TWA	180 mg/m3	
		50 ppm	
Octane (CAS 111-65-9)	Ceiling	1800 mg/m3	
		385 ppm	
	TWA	350 mg/m3	
		75 ppm	
Propane (CAS 74-98-6)	TWA	1800 mg/m3	
		1000 ppm	

## **Biological limit values**

**ACGIH Biological Exposure Indices** 

Components	Value	Determinant	Specimen	Sampling Time	
Acetone (CAS 67-64-1)	25 mg/l	Acetone	Urine	*	
n-Hexane (CAS 110-54-3)	0.4 mg/l	2,5-Hexanedio n, without hydrolysis	Urine	*	

<sup>\* -</sup> For sampling details, please see the source document.

## **Exposure guidelines**

US - California OELs: Skin designation

n-Hexane (CAS 110-54-3) Can be absorbed through the skin.

**US ACGIH Threshold Limit Values: Skin designation** 

n-Hexane (CAS 110-54-3) Can be absorbed through the skin.

Appropriate engineering

Eye wash facilities and emergency shower must be available when handling this product.

controls

Eye/face protection

Individual protection measures, such as personal protective equipment If contact is likely, safety glasses with side shields are recommended.

Skin protection

Hand protection

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove

supplier.

Other

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection

If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an

air-supplied respirator.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Observe any medical surveillance requirements. When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove

contaminants.

## 9. Physical and chemical properties

## **Appearance**

Physical state Gas.

Product name: 9 OZ MACS 1413 DRY GRAPH FLM LUB LT 12PK Product #: 1000028758 Version #: 01 Issue date: 01-19-2017

Aerosol. Form Not available. Color Odor Not available. Not available. **Odor threshold** Not available. pН Not available. **Melting point/freezing point** 

Initial boiling point and boiling

range

90.45 °F (32.47 °C) estimated

-99.4 °F (-73.0 °C) PROPELLANT estimated Flash point

**Evaporation rate** Not available. Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower

2.3 % estimated

(%)

Flammability limit - upper

11.5 % estimated

(%)

Not available. Explosive limit - lower (%) Explosive limit - upper (%) Not available. Vapor pressure Not available. Vapor density Not available. Relative density Not available.

Solubility(ies)

Solubility (water) Not available. **Partition coefficient** Not available.

(n-octanol/water)

904.28 °F (484.6 °C) estimated **Auto-ignition temperature** 

Not available. **Decomposition temperature Viscosity** Not available.

Other information

**Explosive properties** Not explosive. Oxidizing properties Not oxidizing. Specific gravity 0.264 estimated

## 10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability** Material is stable under normal conditions. Possibility of hazardous Hazardous polymerization does not occur.

reactions

Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials Acids. Strong oxidizing agents. Nitrates. Fluorine. Chlorine.

**Hazardous decomposition** 

Conditions to avoid

products

No hazardous decomposition products are known.

## 11. Toxicological information

## Information on likely routes of exposure

Inhalation Harmful if inhaled. May cause drowsiness and dizziness. Headache. Nausea, vomiting.

Skin contact Causes skin irritation. Eye contact Causes serious eye irritation.

Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious Ingestion

chemical pneumonia.

Symptoms related to the physical, chemical and toxicological characteristics Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing,

redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

# Information on toxicological effects

Acute toxicity	May be fatal if swallowed and enters a	irways. Harmful if inhaled. Narcotic effects.
Components	Species	Test Results
Acetone (CAS 67-64-1)		
<u>Acute</u>		
Dermal		
LD50	Guinea pig	> 7426 mg/kg, 24 Hours
		> 9.4 ml/kg, 24 Hours
	Rabbit	> 7426 mg/kg, 24 Hours
		> 9.4 ml/kg, 24 Hours
Inhalation		
LC50	Rat	55700 ppm, 3 Hours
		132 mg/l, 3 Hours
		50.1 mg/l
Oral		•
LD50	Rat	5800 mg/kg
		2.2 ml/kg
syclohexane (CAS 110-82-7	·)	2.2 mm/g
Acute	,	
<u>Dermal</u>		
LD50	Rabbit	> 2000 mg/kg
Inhalation		<b>G G</b>
LC50	Rat	> 32880 mg/m3, 4 Hours
		> 5540 ppm, 4 Hours
Oral		осторрин, типошно
LD50	Rabbit	> 5000 mg/kg
2500	Rat	> 5000 mg/kg
raphite (CAS 7782-42-5)	Nat	2 3000 mg/kg
Acute		
Inhalation		
LC50	Rat	> 2000 mg/m3, 4 Hours
Oral		
LD50	Rat	> 2000 mg/kg
obutane (CAS 75-28-5)		
Acute		
Inhalation		
LC50	Mouse	1237 mg/l, 120 Minutes
		52 %, 120 Minutes
	Rat	1355 mg/l
anhtha (netroleum). Hydrot	reated Light (CAS 64742-49-0)	. s s s mg/
Acute	reated Light (5/16/04/142/45/6)	
<u>Acute</u> Dermal		
LD50	Guinea pig; Rabbit	> 9.4 ml/kg, 24 Hours
	Rabbit	> 1900 mg/kg, 24 Hours
Inhalation		
LC50	Rat	> 5000 mg/m3, 4 Hours
		> 4980 mg/m3
		> 4980 mg/m3, 4 Hours
		_
		> 4.96 mg/l, 4 Hours

Components	Species	Test Results
		13700 ppm, 4 Hours
Oral		
LD50	Rat	4820 mg/kg
n-Hexane (CAS 110-54-3)		
<u>Acute</u>		
<b>Dermal</b> LD50	Rabbit	> 2000 mg/kg, 4 Hours
LD30	Rabbit	
labatetta.		> 5 ml/kg, 4 Hours
Inhalation LC50	Rat	> 5000 ppm, 24 Hours
LC30	Ναι	
		> 31.86 mg/l
		73860 ppm, 4 Hours
Oral	Det	24 ml/kg
LD50	Rat	24 ml/kg
	100	24 g/kg
	Wistar rat	49 g/kg
Octane (CAS 111-65-9)		
<u>Acute</u>		
<b>Dermal</b> LD50	Rabbit	> 2000 mg/kg, 24 Hours
Inhalation	Nabbit	2000 Hig/Ng, 24 Hours
LC50	Rat	> 24.88 mg/l, 4 Hours
Oral	rat	2 noo nigri, 1 noono
LD50	Rat	> 5000 mg/kg
Propane (CAS 74-98-6)		occo mgmg
Acute		
<u> </u>		
LC50	Mouse	1237 mg/l, 120 Minutes
		52 %, 120 Minutes
	Rat	1355 mg/l
		658 mg/l/4h
Solvent Naphtha (Petroleum)	, Light Aliphatic (CAS 64742-89-8)	- -
Acute	,	
Dermal		
LD50	Rabbit	> 1900 mg/kg, 24 Hours
Inhalation		
LC50	Rat	> 5000 mg/m3, 4 Hours
		> 4980 mg/m3
		> 4980 mg/m3, 4 Hours
		> 4.96 mg/l, 4 Hours
Oral		
LD50	Rat	4820 mg/kg

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Skin corrosion/irritationCauses skin irritation.Serious eye damage/eyeCauses serious eye irritation.

irritation

n .

Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

**Carcinogenicity** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

**US. National Toxicology Program (NTP) Report on Carcinogens** 

Not listed.

**Reproductive toxicity** Suspected of damaging fertility or the unborn child.

Specific target organ toxicity -

May cause drowsiness and dizziness.

single exposure

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard

May be fatal if swallowed and enters airways.

## 12. Ecological information

**Ecotoxicity** Toxic to aquatic life with long lasting effects.

Components		Species	Test Results
Acetone (CAS 67-64-	1)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	21.6 - 23.9 mg/l, 48 hours
Fish	LC50	Rainbow trout, donaldson trout (Oncorhynchus mykiss)	4740 - 6330 mg/l, 96 hours
Cyclohexane (CAS 11	0-82-7)		
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	23.03 - 42.07 mg/l, 96 hours
n-Hexane (CAS 110-5	54-3)		
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	2.101 - 2.981 mg/l, 96 hours

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

**Persistence and degradability** No data is available on the degradability of this product.

## **Bioaccumulative potential**

Partition	coefficient	n-octanol /	water	(log k	(wo
Partition	COGILICIGIII	II-OCLAIIOI /	water	(IOG r	LUW

-0.24
3.44
2.76
3.9
5.18
2.36

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

**Disposal instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents

under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international

regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

**Contaminated packaging** 

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

## 14. Transport information

DOT

UN number UN1950

UN proper shipping name Transport hazard class(es) Aerosols, flammable, (each not exceeding 1 L capacity)

Class

Class 2.1 Subsidiary risk -Label(s) 2.1

Packing group Not applicable.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Read safety

instructions, SDS and emergency procedures before handling.

Special provisionsN82Packaging exceptions306Packaging non bulkNonePackaging bulkNone

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking.

**IATA** 

UN number UN1950

UN proper shipping name

Aerosols, flammable

Transport hazard class(es)

Class 2.1 Subsidiary risk -Label(s) 2.1

Packing group Not applicable.

**Environmental hazards** Yes **ERG Code** 10L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Read safety

instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only Allowed with restrictions.

Packaging Exceptions LTD QTY

**IMDG** 

UN number UN1950 UN proper shipping name AEROSOLS

Transport hazard class(es)

Class 2.1
Subsidiary risk Label(s) 2.1

Packing group Not applicable.

**Environmental hazards** 

Marine pollutant Yes EmS F-D, S-U

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Read safety

instructions, SDS and emergency procedures before handling.

Packaging Exceptions
Transport in bulk according to
Annex II of MARPOL 73/78 and

Not applicable.

LTD QTY

the IBC Code

Product name: 9 OZ MACS 1413 DRY GRAPH FLM LUB LT 12PK Product #: 1000028758 Version #: 01 Issue date: 01-19-2017

### DOT



## IATA; IMDG



## Marine pollutant



**General information** 

IMDG Regulated Marine Pollutant.

## 15. Regulatory information

**US federal regulations** 

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

# TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

## **CERCLA Hazardous Substance List (40 CFR 302.4)**

Acetone (CAS 67-64-1) Listed.
Cyclohexane (CAS 110-82-7) Listed.
n-Hexane (CAS 110-54-3) Listed.

## SARA 304 Emergency release notification

Not regulated.

## OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

## Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

## SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

## SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
Cyclohexane	110-82-7	2.5 - 10	

## SARA 313 (TRI reporting)

**Chemical name** CAS number % by wt. 110-54-3 n-Hexane 0.1 - 1

## Other federal regulations

## Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

n-Hexane (CAS 110-54-3)

## Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Isobutane (CAS 75-28-5) Propane (CAS 74-98-6)

Safe Drinking Water Act

Not regulated.

(SDWA)

## Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and **Chemical Code Number**

Acetone (CAS 67-64-1)

6532

## Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Acetone (CAS 67-64-1)

35 %WV

**DEA Exempt Chemical Mixtures Code Number** 

Acetone (CAS 67-64-1)

6532

## **US** state regulations

## US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

# US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.

(a))

Acetone (CAS 67-64-1)

Isobutane (CAS 75-28-5)

Naphtha (petroleum), Hydrotreated Light (CAS 64742-49-0)

n-Hexane (CAS 110-54-3)

Solvent Naphtha (Petroleum), Light Aliphatic (CAS 64742-89-8)

## **US. Massachusetts RTK - Substance List**

Acetone (CAS 67-64-1)

Cyclohexane (CAS 110-82-7)

Graphite (CAS 7782-42-5)

Isobutane (CAS 75-28-5)

n-Hexane (CAS 110-54-3)

Octane (CAS 111-65-9) Propane (CAS 74-98-6)

## **US. New Jersey Worker and Community Right-to-Know Act**

Acetone (CAS 67-64-1)

Cyclohexane (CAS 110-82-7)

Graphite (CAS 7782-42-5)

Isobutane (CAS 75-28-5)

n-Hexane (CAS 110-54-3)

Octane (CAS 111-65-9)

## Propane (CAS 74-98-6)

## US. Pennsylvania Worker and Community Right-to-Know Law

Acetone (CAS 67-64-1)

Cyclohexane (CAS 110-82-7)

Graphite (CAS 7782-42-5)

Isobutane (CAS 75-28-5)

n-Hexane (CAS 110-54-3)

Octane (CAS 111-65-9)

Propane (CAS 74-98-6)

## **US. Rhode Island RTK**

Acetone (CAS 67-64-1)

Cyclohexane (CAS 110-82-7)

Isobutane (CAS 75-28-5)

n-Hexane (CAS 110-54-3)

Propane (CAS 74-98-6)

## **US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

## **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

**Issue date** 01-19-2017

Version # 01

**Disclaimer** The information provided in this Safety Data Sheet is correct to the best of our knowledge,

information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other

materials or in any process, unless specified in the text.

Product name: 9 OZ MACS 1413 DRY GRAPH FLM LUB LT 12PK Product #: 1000028758 Version #: 01 Issue date: 01-19-2017

## SAFETY DATA SHEET

1. Identification

**Product number** 1000036031

12 OZ MAC'S CARB & CHOKE CLEANER LT 12PK **Product identifier** 

NAPA BALKAMP **Company information** 

2601 Stout Heritage Parkway Plainfield, IN 46168 United States

Company phone General Assistance 1-317-754-3900

**Emergency telephone US** 1-866-836-8855 **Emergency telephone outside** 

1-952-852-4646

US

Version # 01 Recommended use Cleaner **Recommended restrictions** None known.

2. Hazard(s) identification

Physical hazards Flammable aerosols Category 1 Health hazards Serious eye damage/eye irritation Category 2 Reproductive toxicity (the unborn child) Category 2

> Specific target organ toxicity, single exposure Category 3 narcotic effects

Specific target organ toxicity, repeated

Category 2

exposure

**OSHA** defined hazards Not classified.

Label elements



Signal word Danger

Extremely flammable aerosol. Causes serious eye irritation. May cause drowsiness or dizziness. **Hazard statement** 

Suspected of damaging the unborn child. May cause damage to organs through prolonged or

repeated exposure.

**Precautionary statement** 

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not breathe gas. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

Response If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse

cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. If eye irritation persists: Get medical advice/attention.

Storage Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from

sunlight. Do not expose to temperatures exceeding 50°C/122°F.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

## 3. Composition/information on ingredients

**Mixtures** 

Chemical name	Common name and synonyms	CAS number	%
Acetone		67-64-1	80 - 90
Carbon Dioxide		124-38-9	2.5 - 10
Toluene		108-88-3	2.5 - 10
Distillates (petroleum), Hydrotreated Light		64742-47-8	1 - 2.5
Methyl Acetate		79-20-9	1 - 2.5
Other components below rep	ortable levels		0.01 - 0.1

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 4. First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion In the unlikely event of swallowing contact a physician or poison control center. Rinse mouth.

Most important symptoms/effects, acute and

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Prolonged exposure may cause chronic effects. delayed

Indication of immediate medical attention and special treatment needed

**General information** 

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation.

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

### 5. Fire-fighting measures

Suitable extinguishing media Alcohol resistant foam. Powder. Carbon dioxide (CO2).

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Fire fighting equipment/instructions

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Use water spray to cool unopened

containers. In the event of fire and/or explosion do not breathe fumes.

Extremely flammable aerosol. General fire hazards

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe gas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground.

### 7. Handling and storage

### Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Do not breathe gas. Avoid contact with eyes. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

### Conditions for safe storage, including any incompatibilities

Level 2 Aerosol.

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

#### Occupational exposure limits

IIS OSHA Table	7-1 Limits for	Air Contaminante	(29 CFR 1910.1000)
US. USITA TABLE	: <b>८</b> -। LIIIIII 101	All Cultallillails	123 GFN 1310.10001

Components	Туре	Value	
Acetone (CAS 67-64-1)	PEL	2400 mg/m3	
		1000 ppm	
Carbon Dioxide (CAS 124-38-9)	PEL	9000 mg/m3	
,		5000 ppm	
Methyl Acetate (CAS 79-20-9)	PEL	610 mg/m3	
UO 00UA T.LL. 7.0 (00 0ED 404	10.4000)	200 ppm	
US. OSHA Table Z-2 (29 CFR 191 Components	Type	Value	
Toluene (CAS 108-88-3)	Ceiling	300 ppm	
	TWA	200 ppm	
<b>US. ACGIH Threshold Limit Valu</b>	es		
Components	Туре	Value	
Acetone (CAS 67-64-1)	STEL	500 ppm	
	TWA	250 ppm	
Carbon Dioxide (CAS 124-38-9)	STEL	30000 ppm	
,	TWA	5000 ppm	
Methyl Acetate (CAS 79-20-9)	STEL	250 ppm	
	TWA	200 ppm	
Toluene (CAS 108-88-3)	TWA	20 ppm	
US. NIOSH: Pocket Guide to Che	emical Hazards		
Components	Туре	Value	
Acetone (CAS 67-64-1)	TWA	590 mg/m3	
		250 ppm	
Carbon Dioxide (CAS 124-38-9)	STEL	54000 mg/m3	
		30000 ppm	
	TWA	9000 mg/m3	
		5000 ppm	
Methyl Acetate (CAS 79-20-9)	STEL	760 mg/m3	
		250 ppm	
	TWA	610 mg/m3	
		200 ppm	

Product name: 12 OZ MAC'S CARB & CHOKE CLEANER LT 12PK

## **US. NIOSH: Pocket Guide to Chemical Hazards**

Components	Туре	Value	
Toluene (CAS 108-88-3)	STEL	560 mg/m3	
		150 ppm	
	TWA	375 mg/m3	
		100 ppm	

#### **Biological limit values**

ACGIH Biological Exp	osure Indices
----------------------	---------------

Components	Value	Determinant	Specimen	Sampling Time
Acetone (CAS 67-64-1)	25 mg/l	Acetone	Urine	*
Toluene (CAS 108-88-3)	0.3 mg/g	o-Cresol, with hydrolysis	Creatinine in urine	*
	0.03 mg/l	Toluene	Urine	*
	0.02 mg/l	Toluene	Blood	*

<sup>\* -</sup> For sampling details, please see the source document.

#### **Exposure guidelines**

US - California OELs: Skin designation

Toluene (CAS 108-88-3)

Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

Toluene (CAS 108-88-3) Skin designation applies.

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove

supplier.

Other Wear suitable protective clothing. Use of an impervious apron is recommended.

**Respiratory protection** If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an

air-supplied respirator.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Observe any medical surveillance requirements. When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove

contaminants.

### 9. Physical and chemical properties

#### **Appearance**

Physical state Gas.
Form Aerosol.
Color Not available.
Odor Not available.
Odor threshold Not available.
PH Not available.
Melting point/freezing point Not available.

Initial boiling point and boiling

range

113.51 °F (45.29 °C) estimated

Flash point 5.4 °F (-14.8 °C) estimated

Evaporation rate Not available. Flammability (solid, gas) Not available.

Product name: 12 OZ MAC'S CARB & CHOKE CLEANER LT 12PK

Product #: 1000036031 Version #: 01 Issue date: 01-30-2018

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

2.5 % estimated

Flammability limit - upper

(%)

12.2 % estimated

Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available.

80 - 100 psig @20C estimated Vapor pressure

Vapor density Not available. 0.856 estimated Relative density

Solubility(ies)

Not available. Solubility (water) **Partition coefficient** Not available.

(n-octanol/water)

896 °F (480 °C) estimated **Auto-ignition temperature** 

**Decomposition temperature** Not available. Not available. **Viscosity** 

Other information

**Explosive properties** Not explosive.

Heat of combustion (NFPA

30B)

25.62 kJ/g estimated

Oxidizing properties Not oxidizing.

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Material is stable under normal conditions. Chemical stability Possibility of hazardous Hazardous polymerization does not occur.

reactions

Avoid temperatures exceeding the flash point. Contact with incompatible materials. Conditions to avoid

Incompatible materials Acids. Strong oxidizing agents. Aluminum.

Hazardous decomposition

products

No hazardous decomposition products are known.

### 11. Toxicological information

Information on likely routes of exposure

May cause damage to organs through prolonged or repeated exposure by inhalation. May cause Inhalation

drowsiness and dizziness. Headache. Nausea, vomiting.

Skin contact No adverse effects due to skin contact are expected.

Eye contact Causes serious eye irritation.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation.

Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Information on toxicological effects

Narcotic effects. **Acute toxicity** 

Components **Species Test Results** 

Acetone (CAS 67-64-1)

Acute Dermal

LD50 Guinea pig > 7426 mg/kg, 24 Hours

> 9.4 ml/kg, 24 Hours

Rabbit > 7426 mg/kg, 24 Hours

> 9.4 ml/kg, 24 Hours

Product name: 12 OZ MAC'S CARB & CHOKE CLEANER LT 12PK

Components	Species	Test Results
Inhalation		
LC50	Rat	55700 ppm, 3 Hours
		132 mg/l, 3 Hours
		50.1 mg/l
Oral		
LD50	Rat	5800 mg/kg
		2.2 ml/kg
Distillates (petroleum), H	lydrotreated Light (CAS 64742-47-8)	
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 2000 mg/kg
		> 2000 mg/kg, 24 Hours
Inhalation		
LC50	Rat	> 7.5 mg/l, 6 Hours
		> 4.6 mg/l, 4 Hours
Oral		
LD50	Rat	> 5000 mg/kg
Methyl Acetate (CAS 79-	-20-9)	
<u>Acute</u>		
Dermal	Б.	0000 # 0444
LD50	Rat	> 2000 mg/kg, 24 Hours
Inhalation	D-l-l-#	00.4
LC100	Rabbit	98.4 mg/l, 4 Hours
<b>Oral</b> LD50	Rat	6482 mg/kg
		0402 Hig/kg
Toluene (CAS 108-88-3) <u>Acute</u>		
<u>Acute</u> Dermal		
LD50	Rabbit	> 5000 mg/kg, 24 Hours
Inhalation		3 3/
LC50	Mouse	6405 - 7436 ppm, 6 Hours
		5320 ppm, 8 Hours
	Rat	5879 - 6281 ppm, 6 Hours
		25.7 mg/l, 4 Hours
Oral		
LD50	Rat	> 5000 mg/kg

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

Causes serious eye irritation.

irritation

Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

**Carcinogenicity** Risk of cancer cannot be excluded with prolonged exposure.

IARC Monographs. Overall Evaluation of Carcinogenicity

Toluene (CAS 108-88-3) 3 Not classifiable as to carcinogenicity to humans.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

#### US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Suspected of damaging the unborn child. Reproductive toxicity Specific target organ toxicity -

single exposure

May cause drowsiness and dizziness.

Specific target organ toxicity -

repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Not likely, due to the form of the product. **Aspiration hazard** 

**Chronic effects** May cause damage to organs through prolonged or repeated exposure. Prolonged inhalation may

be harmful. Prolonged exposure may cause chronic effects.

### 12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Acetone -0.24Methyl Acetate 0.18 Toluene 2.73

Mobility in soil No data available.

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation Other adverse effects

potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents

under pressure. Do not puncture, incinerate or crush. Dispose of contents/container in accordance

with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Product name: 12 OZ MAC'S CARB & CHOKE CLEANER LT 12PK

**Hazardous waste code**The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal. Do not re-use empty containers.

### 14. Transport information

DOT

UN number UN1950

**UN proper shipping name** Aerosols, flammable, (each not exceeding 1 L capacity)

Transport hazard class(es)

Class 2.1 Subsidiary risk -Label(s) 2.1

Packing group Not applicable.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisionsN82Packaging exceptions306Packaging non bulkNonePackaging bulkNone

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking.

IATA

UN number UN1950

**UN proper shipping name** Aerosols, flammable

Transport hazard class(es)

Class 2.1 Subsidiary risk -Label(s) 2.1

Packing group Not applicable.

**Environmental hazards** No. **ERG Code** 10L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Read safety

instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only Allowed with restrictions.

Packaging Exceptions LTD QTY

**IMDG** 

UN number UN1950 UN proper shipping name AEROSOLS

Transport hazard class(es)

Class 2.1
Subsidiary risk
Label(s) None

Packing group Not applicable.

**Environmental hazards** 

Marine pollutant No.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Read safety

instructions, SDS and emergency procedures before handling.

Packaging Exceptions LTD QTY

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78 and

the IBC Code



IATA; IMDG



# 15. Regulatory information

**US federal regulations** 

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Acetone (CAS 67-64-1) Listed.
Toluene (CAS 108-88-3) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
Toluene	108-88-3	2.5 - 10

## Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Toluene (CAS 108-88-3)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act N

Not regulated.

(SDWA)

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Acetone (CAS 67-64-1) 6532 Toluene (CAS 108-88-3) 6594

## Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Acetone (CAS 67-64-1) 35 %WV Toluene (CAS 108-88-3) 35 %WV

#### **DEA Exempt Chemical Mixtures Code Number**

Acetone (CAS 67-64-1) 6532 Toluene (CAS 108-88-3) 594

#### US state regulations

# US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

## US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.

(a))

Acetone (CAS 67-64-1) Toluene (CAS 108-88-3)

#### **US. Massachusetts RTK - Substance List**

Acetone (CAS 67-64-1)

Carbon Dioxide (CAS 124-38-9) Methyl Acetate (CAS 79-20-9) Toluene (CAS 108-88-3)

## US. New Jersey Worker and Community Right-to-Know Act

Acetone (CAS 67-64-1)

Carbon Dioxide (CAS 124-38-9) Methyl Acetate (CAS 79-20-9) Toluene (CAS 108-88-3)

### US. Pennsylvania Worker and Community Right-to-Know Law

Acetone (CAS 67-64-1)

Carbon Dioxide (CAS 124-38-9) Methyl Acetate (CAS 79-20-9) Toluene (CAS 108-88-3)

#### **US. Rhode Island RTK**

Acetone (CAS 67-64-1) Toluene (CAS 108-88-3)

### **US. California Proposition 65**

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

## US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Acetaldehyde (CAS 75-07-0) Listed: April 1, 1988

## US - California Proposition 65 - CRT: Listed date/Developmental toxin

Methanol (CAS 67-56-1) Listed: March 16, 2012 Toluene (CAS 108-88-3) Listed: January 1, 1991

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

Toxic Substances Control Act (TSCA) Inventory United States & Puerto Rico

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Product name: 12 OZ MAC'S CARB & CHOKE CLEANER LT 12PK Product #: 1000036031 Version #: 01 Issue date: 01-30-2018

# 16. Other information, including date of preparation or last revision

**Issue date** 01-30-2018

Version # 01

**Disclaimer** The information provided in this Safety Data Sheet is correct to the best of our knowledge,

information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other

materials or in any process, unless specified in the text.

Product name: 12 OZ MAC'S CARB & CHOKE CLEANER LT 12PK Product #: 1000036031 Version #: 01 Issue date: 01-30-2018

Valvoline	Page: 1
SAFETY DATA SHEET	Revision Date: 07/31/2016
	Print Date: 9/27/2016
	SDS Number: R0172170
NAPA® EP WHEEL BEARING GREASE	Version: 1.1
NP75600	

29 CFR 1910.1200 (OSHA HazCom 2012)

# **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

**Product identifier** 

Trade name : NAPA® EP WHEEL BEARING

**GREASE** 

#### Recommended use of the chemical and restrictions on use

Details of the supplier of the safety data sheet	Emergency telephone number 1-800-VALVOLINE
Valvoline LLC 3499 Blazer Parkway Lexington, KY 40509	Regulatory Information Number 1-800-TEAMVAL
United States of America	Product Information 1-800-TEAMVAL
SDS@valvoline.com	1-000-1 LAWIVAL

# **SECTION 2. HAZARDS IDENTIFICATION**

### **GHS Classification**

This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).

## **GHS Label element**

This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).

## Other hazards

None known.

## **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

Chemical nature : Defatter

# **Hazardous components**

Chemical Name	CAS-No.	Classification	Concentration (%)
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC	64742-65-0	Asp. Tox. 1; H304	74.99

Valvoline.	Page: 2
SAFETY DATA SHEET	Revision Date: 07/31/2016
	Print Date: 9/27/2016
	SDS Number: R0172170
NAPA® EP WHEEL BEARING GREASE	Version: 1.1
NP75600	

ASPHALT	Not a hazardous substance or mixture.	24.99
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTA	 Not a hazardous substance or mixture.	9.99

#### **SECTION 4. FIRST AID MEASURES**

General advice : No hazards which require special first aid measures.

If inhaled : If breathed in, move person into fresh air.

If unconscious place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact : First aid is not normally required. However, it is

recommended that exposed areas be cleaned by washing

with soap and water.

In case of eye contact : Remove contact lenses.

Protect unharmed eye.

If swallowed : Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Most important symptoms and effects, both acute and

delayed

: Acute aspiration of large amounts of oil-laden material may produce a serious aspiration pneumonia. Patients who aspirate these oils should be followed for the development of long-term sequelae. Repeated aspiration of small quantities of mineral oil can produce chronic inflammation of the lungs (i.e. lipoid pneumonia) that may progress to pulmonary fibrosis. Symptoms are often subtle and radiological changes appear worse than clinical abnormalities. Occasionally, persistent cough, irritation of the upper respiratory tract, shortness of breath with exertion, fever, and bloody sputum occur. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary abnormalities.

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through

the skin may include:

stomach or intestinal upset (nausea, vomiting, diarrhea)

irritation (nose, throat, airways)

Notes to physician : No hazards which require special first aid measures.

Valvoline.	Page: 3
SAFETY DATA SHEET	Revision Date: 07/31/2016
	Print Date: 9/27/2016
	SDS Number: R0172170
NAPA® EP WHEEL BEARING GREASE	Version: 1.1
NP75600	

## **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Water spray

Foam Carbon dioxide (CO2)

Dry chemical

Specific hazards during

firefighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion

products

: carbon dioxide and carbon monoxide

sulfur oxides Hydrocarbons Aldehydes Ketones

Nitrogen oxides (NOx) Sulphur oxides

Specific extinguishing

methods

:

Product is compatible with standard fire-fighting agents.

Further information : Standard procedure for chemical fires.

Special protective equipment

for firefighters

: In the event of fire, wear self-contained breathing apparatus.

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Persons not wearing protective equipment should be excluded

from area of spill until clean-up has been completed.

Environmental precautions : Prevent further leakage or spillage if safe to do so.

Methods and materials for containment and cleaning up

: Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

Other information : Comply with all applicable federal, state, and local regulations.

# **SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : Smoking, eating and drinking should be prohibited in the

Valvoline.	Page: 4
SAFETY DATA SHEET	Revision Date: 07/31/2016
	Print Date: 9/27/2016
	SDS Number: R0172170
NAPA® EP WHEEL BEARING GREASE	Version: 1.1
NP75600	

application area.

For personal protection see section 8.

Conditions for safe storage : Electrical installations / working materials must comply with

the technological safety standards.

Materials to avoid : No materials to be especially mentioned.

# **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

# Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC	64742-65-0	PEL	500 ppm 2,000 mg/m3	OSHA_TRA NS
		REL	5 mg/m3 Mist.	NIOSH/GUID E
		STEL	10 mg/m3 Mist.	NIOSH/GUID E
		PEL	5 mg/m3 Mist.	OSHA_TRA NS
		TWA	5 mg/m3 Mist.	Z1A
		TWA	400 ppm 1,600 mg/m3	Z1A
ASPHALT	8052-42-4	TWA	0.5 mg/m3 Inhalable fraction. (as benzene solubles)	ACGIH
		Ceil_Time	5 mg/m3 Fume.	NIOSH/GUID E
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTA	64742-52-5	PEL	500 ppm 2,000 mg/m3	OSHA_TRA NS
		REL	5 mg/m3 Mist.	NIOSH/GUID E
		STEL	10 mg/m3 Mist.	NIOSH/GUID E
		PEL	5 mg/m3 Mist.	OSHA_TRA NS

**Engineering measures** 

: General room ventilation should be adequate for normal conditions of use. However, if unusual operating conditions exist, provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known,

Valvoline.	Page: 5
SAFETY DATA SHEET	Revision Date: 07/31/2016
	Print Date: 9/27/2016
	SDS Number: R0172170
NAPA® EP WHEEL BEARING GREASE	Version: 1.1
NP75600	

suspected or apparent adverse effects.

## Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally

required.

Eye protection : Not required under normal conditions of use. Wear splash-

proof safety goggles if material could be misted or splashed

into eyes.

Skin and body protection : Wear as appropriate:

Safety shoes

Wear resistant gloves (consult your safety equipment

supplier).

Hygiene measures : General industrial hygiene practice.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : gel

Physical state : liquid

Colour : red

Odour : No data available

Odour Threshold : No data available

pH : No data available

Melting point/freezing point : No data available

: 640 °F / 338 °C

Flash point : 471 °F / 244 °C

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : < 0.01 mmHg (20 °C)

Relative vapour density : No data available

<b>Valvoline</b>	Page: 6
SAFETY DATA SHEET	Revision Date: 07/31/2016
	Print Date: 9/27/2016
	SDS Number: R0172170
NAPA® EP WHEEL BEARING GREASE	Version: 1.1
NP75600	

Relative density : 0.95 (15.6 °C)

Density : 0.90 g/cm3 (20 °C)

Solubility(ies)

Water solubility : negligible

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: No data available

Auto-ignition temperature : > 315 °C

Thermal decomposition : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : > 20.5 mm2/s (40 °C)

Oxidizing properties : No data available

# **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous

reactions

: Product will not undergo hazardous polymerization.

Incompatible materials : Strong oxidizing agents

Hazardous decomposition

products

carbon dioxide and carbon monoxide

Hydrocarbons Sulphur oxides

# **SECTION 11. TOXICOLOGICAL INFORMATION**

Information on likely routes of : Inhalation

exposure

Skin contact
Eye Contact

<b>Valvoline</b>	Page: 7
SAFETY DATA SHEET	Revision Date: 07/31/2016
	Print Date: 9/27/2016
	SDS Number: R0172170
NAPA® EP WHEEL BEARING GREASE	Version: 1.1
NP75600	

Ingestion

Acute toxicity

Not classified based on available information.

**Product:** 

Acute oral toxicity : Acute toxicity estimate (Rat): 3,019 mg/kg

Acute dermal toxicity : Acute toxicity estimate (Rabbit): 169,492 mg/kg

**Components:** 

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC:

Acute oral toxicity : LD 50 (Rat): > 5,000 mg/kg

Acute dermal toxicity : LD 50 (Rabbit): > 5,000 mg/kg

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTA:

Acute oral toxicity : LD 50 (Rat): > 5 g/kg

Acute inhalation toxicity : LC50 (Rat): > 5.53 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Assessment: Not classified as acutely toxic by inhalation

under GHS.

Acute dermal toxicity : LD 50 (Rabbit): > 2,000 mg/kg

Assessment: Not classified as acutely toxic by dermal

absorption under GHS.

Remarks: No mortality observed at this dose.

## Skin corrosion/irritation

Not classified based on available information.

**Product:** 

Result: Not irritating to skin

Result: Repeated exposure may cause skin dryness or cracking.

# Components:

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC:

Result: Mildly irritating to skin

ASPHALT:

Result: Not irritating to skin

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTA:

Species: Rabbit

Result: Not irritating to skin

## Serious eye damage/eye irritation

Not classified based on available information.

**Product:** 

Valvoline.	Page: 8
SAFETY DATA SHEET	Revision Date: 07/31/2016
	Print Date: 9/27/2016
	SDS Number: R0172170
NAPA® EP WHEEL BEARING GREASE	Version: 1.1
NP75600	

Result: Not irritating to eyes

Remarks: Unlikely to cause eye irritation or injury.

### Components:

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC:

Result: Mildly irritating to eyes

ASPHALT:

Result: Possibly irritating to eyes

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTA:

Species: Rabbit

Result: Mildly irritating to eyes

## Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

**Components:** 

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTA:

Species: Guinea pig

Assessment: Does not cause skin sensitisation.

Method: OECD Test Guideline 406

### Germ cell mutagenicity

Not classified based on available information.

# Carcinogenicity

Not classified based on available information.

# Reproductive toxicity

Not classified based on available information.

# STOT - single exposure

Not classified based on available information.

## STOT - repeated exposure

Not classified based on available information.

## **Aspiration toxicity**

Not classified based on available information.

## **Product:**

No aspiration toxicity classification

### Components:

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC:

May be fatal if swallowed and enters airways.

#### **Further information**

**Product:** 

Remarks: No data available

Carcinogenicity:

IARC Group 2B: Possibly carcinogenic to humans

ASPHALT 8052-42-4

<b>Valvoline</b>	Page: 9
SAFETY DATA SHEET	Revision Date: 07/31/2016
	Print Date: 9/27/2016
	SDS Number: R0172170
NAPA® EP WHEEL BEARING GREASE	Version: 1.1
NP75600	

OSHA No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

## **SECTION 12. ECOLOGICAL INFORMATION**

## **Ecotoxicity**

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTA:

Toxicity to fish : LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l

Exposure time: 96 h Test Type: static test Test substance: WAF

Method: OECD Test Guideline 203

Toxicity to daphnia and other

aquatic invertebrates

: EL50 (Daphnia magna (Water flea)): > 10,000 mg/l

Exposure time: 48 h Test Type: static test Test substance: WAF

Method: OECD Test Guideline 202

Toxicity to algae : NOEL (Pseudokirchneriella subcapitata (green algae)): >=

100 mg/l

End point: Growth inhibition Exposure time: 72 h Test Type: static test Test substance: WAF

Method: OECD Test Guideline 201

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: NOEL (Daphnia (water flea)): 10 mg/l

Exposure time: 21 d Test Type: semi-static test Test substance: WAF

Method: OECD Test Guideline 211

## Persistence and degradability

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTA:

Biodegradability : Result: Inherently biodegradable

Biodegradation: 31 % Exposure time: 28 d

Method: OECD Test Guideline 301F

#### Bioaccumulative potential

No data available

Valvoline	Page: 10
SAFETY DATA SHEET	Revision Date: 07/31/2016
	Print Date: 9/27/2016
	SDS Number: R0172170
NAPA® EP WHEEL BEARING GREASE	Version: 1.1
NP75600	

# Mobility in soil

No data available

#### Other adverse effects

No data available

**Product:** 

Additional ecological

information

: No data available

## **SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods** 

General advice : Dispose of in accordance with all applicable local, state and

federal regulations.

Contaminated packaging : Empty remaining contents.

# **SECTION 14. TRANSPORT INFORMATION**

# International transport regulations

## **REGULATION**

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT /
					LTD. QTY.

# **U.S. DOT - ROAD**

Not dangerous goods	

## CFR RAIL C

<del></del>		
	Not dangerous goods	

# **U.S. DOT - INLAND WATERWAYS**

Not dangerous goods	

# TDG\_ROAD\_C

Not dangerous goods	

## TDG RAIL C

Not dangerous goods	

# TDG\_INWT\_C

Not dangerous goods	

Valvoline.	Page: 1
SAFETY DATA SHEET	Revision Date: 07/31/2010
	Print Date: 9/27/2010
	SDS Number: R017217
NAPA® EP WHEEL BEARING GREASE	Version: 1.
NP75600	

# INTERNATIONAL MARITIME DANGEROUS GOODS

Not dangerous goods

## **INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO**

Not dangerous goods

#### **INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER**

Not dangerous goods

## MX\_DG

Not dangerous goods

## \*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Marine pollutant	no

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

# **SECTION 15. REGULATORY INFORMATION**

SARA 311/312 Hazards : No SARA Hazards

**SARA 313** 

Component(s)SARA 313

: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop 65 Proposition 65 warnings are not required for this product

based on the results of a risk assessment.

The components of this product are reported in the following inventories:

TSCA : On TSCA Inventory

AUSTR : On the inventory, or in compliance with the inventory

DSL : All components of this product are on the Canadian DSL.

ENCS : On the inventory, or in compliance with the inventory

KECL : On the inventory, or in compliance with the inventory

Valvoline.	Page: 12
SAFETY DATA SHEET	Revision Date: 07/31/2016
	Print Date: 9/27/2016
	SDS Number: R0172170
NAPA® EP WHEEL BEARING GREASE	Version: 1.1
NP75600	

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

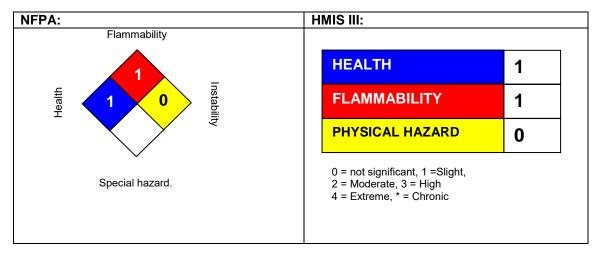
#### Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

#### **SECTION 16. OTHER INFORMATION**

#### **Further information**

Revision Date: 07/31/2016



## NFPA Flammable and Combustible Liquids Classification

Combustible Liquid Class IIIB

## Full text of H-Statements referred to under sections 2 and 3.

H304 May be fatal if swallowed and enters airways.

Sources of key data used to compile the Safety Data Sheet Valvoline internal data including own and sponsored test reports

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Valvoline's Environmental Health and Safety Department (1-800-825-8654).

Valvoline.		Page: 13
SAFETY DATA SHEET	Revision	n Date: 07/31/2016
	Pr	int Date: 9/27/2016
	SDS N	Number: R0172170
NAPA® EP WHEEL BEARING GREASE		Version: 1.1
NP75600		

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet:

ACGIH: American Conference of Industrial Hygienists

BEI: Biological Exposure Index

CAS: Chemical Abstracts Service (Division of the American Chemical Society).

CMR: Carcinogenic, Mutagenic or Toxic for Reproduction

FG: Food grade

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

H-statement : Hazard Statement

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization

ICAO-TI (ICAO): Technical Instructions by the "International Civil Aviation Organization"

IMDG: International Maritime Code for Dangerous Goods

ISO: International Organization for Standardization

logPow: octanol-water partition coefficient

LCxx: Lethal Concentration, for xx percent of test population

LDxx: Lethal Dose, for xx percent of test population. ICxx: Inhibitory Concentration for xx of a substance

Ecxx : Effective Concentration of xx N.O.S.: Not Otherwise Specified

OECD: Organization for Economic Co-operation and Development

OEL : Occupational Exposure Limit
P-Statement : Precautionary Statement
PBT : Persistent , Bioaccumulative and Toxic

PPE: Personal Protective Equipment STEL: Short-term exposure limit STOT: Specific Target Organ Toxicity

TLV: Threshold Limit Value TWA: Time-weighted average

vPvB : Very Persistent and Very Bioaccumulative

WEL: Workplace Exposure Level

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

**DOT**: Department of Transportation

FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act HMIRC: Hazardous Materials Information Review Commission

HMIS: Hazardous Materials Identification System NFPA: National Fire Protection Association

NIOSH: National Institute for Occupational Safety and Health OSHA: Occupational Safety and Health Administration

PMRA: Health Canada Pest Management Regulatory Agency

RTK : Right to Know

WHMIS: Workplace Hazardous Materials Information System

Valvoline.	Page: 1
SAFETY DATA SHEET	Revision Date: 07/31/2016
	Print Date: 9/27/2016
	SDS Number: R0382635
NAPA® ATF+4 FULL SYNTHETIC AUTOMATIC TRANSMISSION FLUID	Version: 1.4
591671	

29 CFR 1910.1200 (OSHA HazCom 2012)

## **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

**Product identifier** 

Trade name : NAPA® ATF+4 FULL SYNTHETIC

**AUTOMATIC TRANSMISSION FLUID** 

# Recommended use of the chemical and restrictions on use

Use of the Substance/Mixture : Engine, gear & lubricating oil.

Details of the supplier of the safety data sheet	Emergency telephone number 1-800-VALVOLINE
Valvoline LLC 3499 Blazer Parkway Lexington, KY 40509	Regulatory Information Number 1-800-TEAMVAL
United States of America	Product Information 1-800-TEAMVAL
SDS@valvoline.com	1-000-1 EAWIVAL

## **SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification** 

Skin sensitization : Category 1

**GHS Label element** 

Hazard pictograms :



Signal Word : Warning

Hazard Statements : May cause an allergic skin reaction.

Precautionary Statements : If medical advice is needed, have product container or label at

hand.

Keep out of reach of children. Read label before use.

Prevention:

Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. Contaminated work clothing must not be allowed out of the

workplace.

Valvoline.	Page: 2
SAFETY DATA SHEET	Revision Date: 07/31/2016
	Print Date: 9/27/2016
	SDS Number: R0382635
NAPA® ATF+4 FULL SYNTHETIC AUTOMATIC TRANSMISSION FLUID	Version: 1.4
591671	

Wear protective gloves.

# Response:

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/ attention.

Wash contaminated clothing before reuse.

## Disposal:

Dispose of contents/ container to an approved waste disposal plant.

# Other hazards

None known.

# **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

Chemical nature : Defatter

# **Hazardous components**

Chemical Name	CAS-No.	Classification	Concentration (%)
HYDROTREATED LIGHT PARAFFINIC DISTILLATE	64742-55-8	Not a hazardous substance or mixture.	59.33
HEAVY PARAFFINIC DISTILLATE	64742-54-7	Asp. Tox. 1; H304	25.66
Mineral Oil		Asp. Tox. 1; H304	3.10
BENZENE, POLYPROPENE DERIVATIVES, SULFONATED, CALCIUM SALTS		Eye Irrit. 2A; H319 Skin Sens. 1; H317	0.77
DODECYL HYDROXYPROPYL SULFIDE	67124-09-8	Skin Sens. 1; H317	0.77
POLYMER		Skin Sens. 1; H317	0.38

Valvoline.	Page: 3
SAFETY DATA SHEET	Revision Date: 07/31/2016
	Print Date: 9/27/2016
	SDS Number: R0382635
NAPA® ATF+4 FULL SYNTHETIC AUTOMATIC TRANSMISSION FLUID	Version: 1.4
591671	

#### **SECTION 4. FIRST AID MEASURES**

General advice : Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled : If breathed in, move person into fresh air.

If unconscious place in recovery position and seek medical

If symptoms persist, call a physician.

In case of skin contact : Remove contaminated clothing. If irritation develops, get

medical attention.

If on skin, rinse well with water,

First aid is not normally required. However, it is

recommended that exposed areas be cleaned by washing

with soap and water.

Wash contaminated clothing before re-use.

In case of eye contact : Flush eyes with water as a precaution.

> Remove contact lenses. Protect unharmed eye.

If eye irritation persists, consult a specialist.

If swallowed : Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed

: Acute aspiration of large amounts of oil-laden material may produce a serious aspiration pneumonia. Patients who aspirate these oils should be followed for the development of long-term sequelae. Repeated aspiration of small quantities of mineral oil can produce chronic inflammation of the lungs (i.e. lipoid pneumonia) that may progress to pulmonary fibrosis. Symptoms are often subtle and radiological changes appear worse than clinical abnormalities. Occasionally, persistent cough, irritation of the upper respiratory tract, shortness of breath with exertion, fever, and bloody sputum occur. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary

abnormalities.

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through

the skin may include:

stomach or intestinal upset (nausea, vomiting, diarrhea)

irritation (nose, throat, airways) May cause an allergic skin reaction.

Notes to physician : No hazards which require special first aid measures.

Valvoline.	Page: 4
SAFETY DATA SHEET	Revision Date: 07/31/2016
	Print Date: 9/27/2016
	SDS Number: R0382635
NAPA® ATF+4 FULL SYNTHETIC AUTOMATIC TRANSMISSION FLUID	Version: 1.4
591671	

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Water spray Foam

Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during

firefighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion

products

: carbon dioxide and carbon monoxide

Hydrocarbons Aldehydes

Specific extinguishing

methods

:

Product is compatible with standard fire-fighting agents.

Further information : Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment

for firefighters

: In the event of fire, wear self-contained breathing apparatus.

# **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.

Persons not wearing protective equipment should be excluded

from area of spill until clean-up has been completed.

Environmental precautions : Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

Other information : Comply with all applicable federal, state, and local regulations.

Valvoline.	Page: 5
SAFETY DATA SHEET	Revision Date: 07/31/2016
	Print Date: 9/27/2016
	SDS Number: R0382635
NAPA® ATF+4 FULL SYNTHETIC AUTOMATIC TRANSMISSION FLUID	Version: 1.4
591671	

### **SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : Do not breathe vapours/dust.

Do not smoke.

Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

used.

Container hazardous when empty.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes.

Smoking, eating and drinking should be prohibited in the

application area.

For personal protection see section 8.

Dispose of rinse water in accordance with local and national

regulations.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated

place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage.

Electrical installations / working materials must comply with

the technological safety standards.

### **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Components with workplace control parameters

Compensate with workplace control parameters				
Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
HYDROTREATED LIGHT PARAFFINIC DISTILLATE	64742-55-8	REL	5 mg/m3 Mist.	NIOSH/GUID E
		STEL	10 mg/m3 Mist.	NIOSH/GUID E
		PEL	5 mg/m3 Mist.	OSHA_TRA NS

**Engineering measures** : Provide sufficient mechanical (general and/or local exhaust)

ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or

apparent adverse effects.

Personal protective equipment

Hand protection

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Valvoline.	Page: 6
SAFETY DATA SHEET	Revision Date: 07/31/2016
	Print Date: 9/27/2016
	SDS Number: R0382635
NAPA® ATF+4 FULL SYNTHETIC AUTOMATIC TRANSMISSION FLUID	Version: 1.4
591671	

Eye protection : Not required under normal conditions of use. Wear splash-

proof safety goggles if material could be misted or splashed

into eyes.

Skin and body protection : Wear as appropriate:

impervious clothing Safety shoes

Choose body protection according to the amount and concentration of the dangerous substance at the work place. Discard gloves that show tears, pinholes, or signs of wear. Wear resistant gloves (consult your safety equipment

supplier).

Hygiene measures : Wash hands before breaks and at the end of workday.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid

Physical state : liquid

Colour : red

Odour : No data available

Odour Threshold : No data available

pH : No data available

: No data available

: No data available

Flash point :  $> 390 \, ^{\circ}\text{F} / > 199 \, ^{\circ}\text{C}$ 

Method: Cleveland open cup

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit : 6 %(V)

Calculated Explosive Limit

Lower explosion limit : 1 %(V)

Calculated Explosive Limit : 0.0133333 hPa (21.11 °C)

Vapour pressure : 0.0133333 hPa (21.11 °C)

Calculated Vapor Pressure

Relative vapour density : No data available

Relative density : 0.854 (15.6 °C)

Valvoline.	Page: 7
SAFETY DATA SHEET	Revision Date: 07/31/2016
	Print Date: 9/27/2016
	SDS Number: R0382635
NAPA® ATF+4 FULL SYNTHETIC AUTOMATIC TRANSMISSION FLUID	Version: 1.4
591671	

Density : 0.8508 g/cm3 (15.56 °C)

Solubility(ies)

Water solubility : negligible

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: No data available

Thermal decomposition : No data available

Viscosity

Viscosity, dynamic : < 10,000 mPa.sMethod: Brookfield

Viscosity, kinematic : ca. 34 mm2/s (40 °C)

Oxidizing properties : No data available

# **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous

reactions

: Product will not undergo hazardous polymerization.

Conditions to avoid : excessive heat

Incompatible materials : Strong oxidizing agents

Hazardous decomposition

products

carbon dioxide and carbon monoxide

Hydrocarbons

## **SECTION 11. TOXICOLOGICAL INFORMATION**

Information on likely routes of : Inhalation

exposure

: Inhalation Skin contact

Eye Contact Ingestion

Valvoline.	Page: 8
SAFETY DATA SHEET	Revision Date: 07/31/2016
	Print Date: 9/27/2016
	SDS Number: R0382635
NAPA® ATF+4 FULL SYNTHETIC AUTOMATIC TRANSMISSION FLUID	Version: 1.4
591671	

#### **Acute toxicity**

Not classified based on available information.

#### **Components:**

**HEAVY PARAFFINIC DISTILLATE:** 

Acute oral toxicity : LD 50 (Rat): > 15 g/kg

Acute dermal toxicity : LD 50 (Rabbit): > 5 g/kg

DODECYL HYDROXYPROPYL SULFIDE:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

GLP: yes

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

#### Skin corrosion/irritation

Not classified based on available information.

**Product:** 

Remarks: May cause skin irritation in susceptible persons.

Result: Repeated exposure may cause skin dryness or cracking.

## **Components:**

HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

Result: Mildly irritating to skin

**HEAVY PARAFFINIC DISTILLATE:** 

Result: Mildly irritating to skin

BENZENE, POLYPROPENE DERIVATIVES, SULFONATED, CALCIUM SALTS:

Result: Possibly irritating to skin

DODECYL HYDROXYPROPYL SULFIDE:

Species: Rabbit

Result: Not irritating to skin

POLYMER:

Result: Not irritating to skin

# Serious eye damage/eye irritation

Not classified based on available information.

**Product:** 

Result: Slightly irritating to eyes

Remarks: Expected based on components.

Remarks: Unlikely to cause eye irritation or injury.

# Components:

HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

Result: Mildly irritating to eyes

Valvoline.	Page: 9
SAFETY DATA SHEET	Revision Date: 07/31/2016
	Print Date: 9/27/2016
	SDS Number: R0382635
NAPA® ATF+4 FULL SYNTHETIC AUTOMATIC TRANSMISSION FLUID	Version: 1.4
591671	

#### **HEAVY PARAFFINIC DISTILLATE:**

Result: Not irritating to eyes

# BENZENE, POLYPROPENE DERIVATIVES, SULFONATED, CALCIUM SALTS:

Result: Irritating to eyes

#### DODECYL HYDROXYPROPYL SULFIDE:

Species: Rabbit

Result: Not irritating to eyes

POLYMER:

Result: Not irritating to eyes

### Respiratory or skin sensitisation

Skin sensitisation: May cause an allergic skin reaction.

Respiratory sensitisation: Not classified based on available information.

**Components:** 

BENZENE, POLYPROPENE DERIVATIVES, SULFONATED, CALCIUM SALTS:

Assessment: May cause sensitization by skin contact.

## DODECYL HYDROXYPROPYL SULFIDE:

Assessment: May cause sensitization by skin contact. Result: May cause sensitization by skin contact.

### POLYMER:

Assessment: May cause sensitization by skin contact.

## Germ cell mutagenicity

Not classified based on available information.

#### Carcinogenicity

Not classified based on available information.

#### Reproductive toxicity

Not classified based on available information.

# STOT - single exposure

Not classified based on available information.

#### STOT - repeated exposure

Not classified based on available information.

# **Aspiration toxicity**

Not classified based on available information.

### Components:

# **HEAVY PARAFFINIC DISTILLATE:**

May be fatal if swallowed and enters airways.

#### Mineral Oil:

May be fatal if swallowed and enters airways.

## **Further information**

#### **Product:**

Remarks: No data available

## Carcinogenicity:

IARC No component of this product present at levels greater than or

Valvoline.	Page: 10
SAFETY DATA SHEET	Revision Date: 07/31/2016
	Print Date: 9/27/2016
	SDS Number: R0382635
NAPA® ATF+4 FULL SYNTHETIC AUTOMATIC TRANSMISSION FLUID	Version: 1.4
591671	

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

**OSHA** No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

**NTP** No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

#### **SECTION 12. ECOLOGICAL INFORMATION**

## **Ecotoxicity**

**HEAVY PARAFFINIC DISTILLATE:** 

Toxicity to fish : LL50 (Fish): > 100 mg/l

aquatic invertebrates

Toxicity to daphnia and other : EL50 (Aquatic invertebrates): > 10,000 mg/l

: EL50 (Algae, algal mat (Algae)): > 100 mg/l Toxicity to algae

Toxicity to fish (Chronic

toxicity)

: NOEC (Fish): 10 mg/l

aquatic invertebrates (Chronic toxicity)

Toxicity to daphnia and other : NOEC (Aquatic invertebrates): 10 mg/l

## DODECYL HYDROXYPROPYL SULFIDE:

Toxicity to fish : LC 50 (Oncorhynchus mykiss (rainbow trout)): 0.75 mg/l

> Exposure time: 96 h Test Type: semi-static test

Method: OECD Test Guideline 203

GLP: yes

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: EC 50 (Daphnia magna (Water flea)): 0.5 mg/l

Exposure time: 21 d

End point: see user defined free text Test Type: see user defined free text Method: OECD Test Guideline 211

GLP: yes

#### Persistence and degradability

No data available

# Bioaccumulative potential

No data available

Valvoline.	Page: 11
SAFETY DATA SHEET	Revision Date: 07/31/2016
	Print Date: 9/27/2016
	SDS Number: R0382635
NAPA® ATF+4 FULL SYNTHETIC AUTOMATIC TRANSMISSION FLUID	Version: 1.4
591671	

# Mobility in soil

No data available

#### Other adverse effects

No data available

## **Product:**

Additional ecological

information

: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Harmful to aquatic life

with long lasting effects.

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

# **Disposal methods**

General advice : The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Send to a licensed waste management company.

Dispose of in accordance with all applicable local, state and

federal regulations.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product.

Empty containers should be taken to an approved waste

handling site for recycling or disposal. Do not re-use empty containers.

## **SECTION 14. TRANSPORT INFORMATION**

#### International transport regulations

## REGULATION

112002/111011					
ID NUMBER	PROPER SHIPPING NAME	*HAZARD	SUBSIDIARY	PACKING	MARINE
		CLASS	HAZARDS	GROUP	POLLUTANT /
					LTD. QTY.

#### **U.S. DOT - ROAD**

Not dangerous goods	

# CFR RAIL C

<del></del>		
	Not dangerous goods	

## **U.S. DOT - INLAND WATERWAYS**

Not dangerous goods	
-	

Valvoline.	Page: 12
SAFETY DATA SHEET	Revision Date: 07/31/2016
	Print Date: 9/27/2016
	SDS Number: R0382635
NAPA® ATF+4 FULL SYNTHETIC AUTOMATIC TRANSMISSION FLUID	Version: 1.4
591671	

TDC	D	<b>A D</b>	$\sim$
TDG	RU	Aυ	C

Not dangerous goods	

# TDG\_RAIL\_C

Not dangerous goods

## TDG INWT C

Not dangerous goods

## INTERNATIONAL MARITIME DANGEROUS GOODS

Not dangerous goods

# INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

Not dangerous goods

# INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

Not dangerous goods

# MX\_DG

Not dangerous goods

## \*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Marine pollutant	no

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

## **SECTION 15. REGULATORY INFORMATION**

SARA 311/312 Hazards : Acute Health Hazard

SARA 313

Component(s)SARA 313

: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

# Pennsylvania Right To Know

HYDROTREATED LIGHT PARAFFINIC 64742-55-8 50.00 - 70.00 % DISTILLATE

Valvoline	Page: 13
SAFETY DATA SHEET	Revision Date: 07/31/2016
	Print Date: 9/27/2016
	SDS Number: R0382635
NAPA® ATF+4 FULL SYNTHETIC AUTOMATIC TRANSMISSION FLUID	Version: 1.4
591671	

	HEAVY PARAFFINIC DISTILLATE	64742-54-7	20.00 - 30.00 %
	POLYMER	Not Assigned	5.00 - 10.00 %
	LUBRICANT ADDITIVE	Not Assigned	1.00 - 5.00 %
	Mineral Oil	Not Assigned	1.00 - 5.00 %
New Jersey R	ight To Know HYDROTREATED LIGHT PARAFFINIC DISTILLATE	64742-55-8	50.00 - 70.00 %
	HEAVY PARAFFINIC DISTILLATE	64742-54-7	20.00 - 30.00 %
	POLYMER	Not Assigned	5.00 - 10.00 %
	LUBRICANT ADDITIVE	Not Assigned	1.00 - 5.00 %
	Mineral Oil	Not Assigned	1.00 - 5.00 %

California Prop 65 Proposition 65 warnings are not required for this product

based on the results of a risk assessment.

The components of this product are reported in the following inventories:

TSCA : On TSCA Inventory

DSL : All components of this product are on the Canadian DSL.

AUSTR : On the inventory, or in compliance with the inventory

NZIOC : Not in compliance with the inventory

ENCS : Not in compliance with the inventory

KECL : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

#### **Inventories**

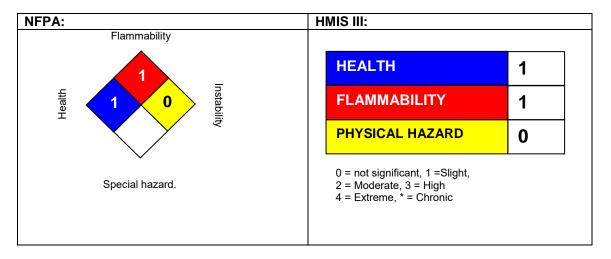
AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

Valvoline.	Page: 14
SAFETY DATA SHEET	Revision Date: 07/31/2016
	Print Date: 9/27/2016
	SDS Number: R0382635
NAPA® ATF+4 FULL SYNTHETIC AUTOMATIC TRANSMISSION FLUID	Version: 1.4
591671	

#### **SECTION 16. OTHER INFORMATION**

#### **Further information**

Revision Date: 07/31/2016



# NFPA Flammable and Combustible Liquids Classification

Combustible Liquid Class IIIB

### Full text of H-Statements referred to under sections 2 and 3.

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.

### **Further information**

Sources of key data used to compile the Safety Data Sheet Valvoline internal data including own and sponsored test reports

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Valvoline's Environmental Health and Safety Department (1-800-825-8654).

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

Valvoline.	Page: 15
SAFETY DATA SHEET	Revision Date: 07/31/2016
	Print Date: 9/27/2016
	SDS Number: R0382635
NAPA® ATF+4 FULL SYNTHETIC AUTOMATIC TRANSMISSION FLUID	Version: 1.4
591671	

ACGIH: American Conference of Industrial Hygienists

BEI: Biological Exposure Index

CAS: Chemical Abstracts Service (Division of the American Chemical Society).

CMR: Carcinogenic, Mutagenic or Toxic for Reproduction

FG: Food grade

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

H-statement : Hazard Statement

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization

ICAO-TI (ICAO): Technical Instructions by the "International Civil Aviation Organization"

IMDG : International Maritime Code for Dangerous Goods

ISO: International Organization for Standardization

logPow: octanol-water partition coefficient

LCxx: Lethal Concentration, for xx percent of test population

LDxx: Lethal Dose, for xx percent of test population. ICxx: Inhibitory Concentration for xx of a substance

Ecxx : Effective Concentration of xx N.O.S.: Not Otherwise Specified

OECD: Organization for Economic Co-operation and Development

OEL : Occupational Exposure Limit
P-Statement : Precautionary Statement
PBT : Persistent , Bioaccumulative and Toxic

PPE: Personal Protective Equipment STEL: Short-term exposure limit STOT: Specific Target Organ Toxicity

TLV: Threshold Limit Value TWA: Time-weighted average

vPvB: Very Persistent and Very Bioaccumulative

WEL: Workplace Exposure Level

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

**DOT**: Department of Transportation

FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act HMIRC: Hazardous Materials Information Review Commission

HMIS: Hazardous Materials Identification System NFPA: National Fire Protection Association

NIOSH: National Institute for Occupational Safety and Health OSHA: Occupational Safety and Health Administration

PMRA: Health Canada Pest Management Regulatory Agency

RTK: Right to Know

WHMIS: Workplace Hazardous Materials Information System

Valvoline.	Page: 1
SAFETY DATA SHEET	Revision Date: 07/31/2016
	Print Date: 9/27/2016
	SDS Number: R0169702
NAPA® PREM PERF NON-DETERGENT SAE 30 MOTOR OIL	Version: 1.2
NP75115	

29 CFR 1910.1200 (OSHA HazCom 2012)

## **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

**Product identifier** 

Trade name : NAPA® PREM PERF NON-DETERGENT SAE 30

MOTOR OIL

#### Recommended use of the chemical and restrictions on use

Details of the supplier of the safety data sheet	Emergency telephone number 1-800-VALVOLINE
Valvoline LLC 3499 Blazer Parkway Lexington, KY 40509	Regulatory Information Number 1-800-TEAMVAL
United States of America	Product Information 1-800-TEAMVAL
SDS@valvoline.com	. 555 . [2, 1117, 12]

# **SECTION 2. HAZARDS IDENTIFICATION**

### **GHS Classification**

This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).

# **GHS Label element**

This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).

#### Other hazards

None known.

## **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

Chemical nature : Defatter

# **Hazardous components**

Chemical Name	CAS-No.	Classification	Concentration (%)
RESIDUAL OILS (PETROLEUM),	64742-62-7	Not a hazardous	15.05
SOLVENT-DEWAXED		substance or mixture.	

<b>Valvoline</b>	Page: 2
SAFETY DATA SHEET	Revision Date: 07/31/2016
	Print Date: 9/27/2016
	SDS Number: R0169702
NAPA® PREM PERF NON-DETERGENT SAE 30 MOTOR OIL	Version: 1.2
NP75115	

#### **SECTION 4. FIRST AID MEASURES**

General advice : No hazards which require special first aid measures.

If inhaled : If breathed in, move person into fresh air.

If unconscious place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact : First aid is not normally required. However, it is

recommended that exposed areas be cleaned by washing

with soap and water.

In case of eye contact : Remove contact lenses.

Protect unharmed eye.

If swallowed : Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Most important symptoms and effects, both acute and

delayed

Signs and symptoms of exposure to this material through

breathing, swallowing, and/or passage of the material through

the skin may include:

stomach or intestinal upset (nausea, vomiting, diarrhea)

irritation (nose, throat, airways)

Dizziness

Notes to physician : No hazards which require special first aid measures.

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Water spray Foam

Carbon dioxide (CO2)

Dry chemical

Specific hazards during

firefighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion

products

: carbon dioxide and carbon monoxide

Hydrocarbons

Valvoline.	Page:
SAFETY DATA SHEET	Revision Date: 07/31/201
	Print Date: 9/27/201
	SDS Number: R016970
NAPA® PREM PERF NON-DETERGENT SAE 30 MOTOR OIL	Version: 1.
NP75115	

Specific extinguishing

methods

Product is compatible with standard fire-fighting agents.

Further information : Standard procedure for chemical fires.

Special protective equipment

for firefighters

: In the event of fire, wear self-contained breathing apparatus.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Persons not wearing protective equipment should be excluded

from area of spill until clean-up has been completed.

Environmental precautions : Prevent further leakage or spillage if safe to do so.

Methods and materials for containment and cleaning up

: Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

Other information : Comply with all applicable federal, state, and local regulations.

## **SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : Smoking, eating and drinking should be prohibited in the

application area.

For personal protection see section 8.

Conditions for safe storage : Electrical installations / working materials must comply with

the technological safety standards.

Materials to avoid : No materials to be especially mentioned.

#### **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### Components with workplace control parameters

	•			
Components	CAS-No.	Value type	Control	Basis
		(Form of	parameters /	
		exposure)	Permissible	
			concentration	
RESIDUAL OILS	64742-62-7	PEL	500 ppm	OSHA_TRA
(PETROLEUM), SOLVENT-			2,000 mg/m3	NS

<b>Valvoline</b>	Page: 4
SAFETY DATA SHEET	Revision Date: 07/31/2016
	Print Date: 9/27/2016
	SDS Number: R0169702
NAPA® PREM PERF NON-DETERGENT SAE 30 MOTOR OIL	Version: 1.2
NP75115	

DEWAXED			
	REL	5 mg/m3 Mist.	NIOSH/GUID E
	STEL	10 mg/m3 Mist.	NIOSH/GUID E
	PEL	5 mg/m3 Mist.	OSHA_TRA NS

**Engineering measures** : General room ventilation should be adequate for normal

conditions of use. However, if unusual operating conditions exist, provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known,

suspected or apparent adverse effects.

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally

required.

Eye protection : Not required under normal conditions of use. Wear splash-

proof safety goggles if material could be misted or splashed

into eyes.

Skin and body protection : Wear as appropriate:

Safety shoes

Wear resistant gloves (consult your safety equipment

supplier).

Hygiene measures : General industrial hygiene practice.

# **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state : liquid

Colour : amber

Odour : No data available

Odour Threshold : No data available

pH : No data available

Melting point/freezing point : No data available

Boiling point/boiling range : 424.99 °F / 218.33 °C

(1,013.333333 hPa)

Calculated Phase Transition Liquid/Gas

Flash point :  $> 390 \, ^{\circ}\text{F} / > 199 \, ^{\circ}\text{C}$ 

Method: Cleveland open cup

Valvoline.	Page:
SAFETY DATA SHEET	Revision Date: 07/31/201
	Print Date: 9/27/201
	SDS Number: R016970
NAPA® PREM PERF NON-DETERGENT SAE 30 MOTOR OIL	Version: 1
NP75115	

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit : 6 %(V)

GLP: Calculated Explosive Limit

Lower explosion limit : 1 %(V)

GLP: Calculated Explosive Limit

Vapour pressure : 1.3333333 hPa (20 °C)

Calculated Vapor Pressure

Relative vapour density : < 1AIR=1

Relative density : 0.888 (15.6 °C)

Density : 0.8890 g/cm3 (15.56 °C)

Solubility(ies)

Water solubility : negligible

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: No data available

Thermal decomposition :

No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Oxidizing properties : No data available

## **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous

reactions

: Product will not undergo hazardous polymerization.

Valvoline.	Page: 6
SAFETY DATA SHEET	Revision Date: 07/31/2016
	Print Date: 9/27/2016
	SDS Number: R0169702
NAPA® PREM PERF NON-DETERGENT SAE 30 MOTOR OIL	Version: 1.2
NP75115	

Incompatible materials : Strong oxidizing agents

Hazardous decomposition

products carbon dioxide and carbon monoxide

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

Information on likely routes of : Inhalation

exposure

Skin contact Eye Contact Ingestion

#### Acute toxicity

Not classified based on available information.

Components:

RESIDUAL OILS (PETROLEUM), SOLVENT-DEWAXED:
Acute oral toxicity : LD 50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 5.58 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: Not classified as acutely toxic by inhalation

under GHS.

Remarks: No mortality observed at this dose.

Acute dermal toxicity : LD 50 (Rabbit): > 5,000 mg/kg

Remarks: No mortality observed at this dose.

LD 50 (Rabbit): > 2,000 mg/kg

Assessment: Not classified as acutely toxic by dermal

absorption under GHS.

### Skin corrosion/irritation

Not classified based on available information.

Product:

Result: Repeated exposure may cause skin dryness or cracking.

### **Components:**

RESIDUAL OILS (PETROLEUM), SOLVENT-DEWAXED:

Species: Rabbit

Result: Not irritating to skin

### Serious eye damage/eye irritation

Not classified based on available information.

**Product:** 

Remarks: Unlikely to cause eye irritation or injury.

#### Components:

RESIDUAL OILS (PETROLEUM), SOLVENT-DEWAXED:

Valvoline.	Page: 7
SAFETY DATA SHEET	Revision Date: 07/31/2016
	Print Date: 9/27/2016
	SDS Number: R0169702
NAPA® PREM PERF NON-DETERGENT SAE 30 MOTOR OIL	Version: 1.2
NP75115	

Species: Rabbit

Result: Not irritating to eyes

#### Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information. Respiratory sensitisation: Not classified based on available information.

Components:

RESIDUAL OILS (PETROLEUM), SOLVENT-DEWAXED:

Test Type: Buehler Test Species: Guinea pig

Assessment: Does not cause skin sensitisation.

#### Germ cell mutagenicity

Not classified based on available information.

### Carcinogenicity

Not classified based on available information.

# Reproductive toxicity

Not classified based on available information.

### STOT - single exposure

Not classified based on available information.

## STOT - repeated exposure

Not classified based on available information.

### **Aspiration toxicity**

Not classified based on available information.

### **Components:**

RESIDUAL OILS (PETROLEUM), SOLVENT-DEWAXED:

No aspiration toxicity classification

# **Further information**

**Product:** 

Remarks: No data available

## Carcinogenicity:

IARC No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

OSHA No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

Valvoline.	Page: 8
SAFETY DATA SHEET	Revision Date: 07/31/2016
	Print Date: 9/27/2016
	SDS Number: R0169702
NAPA® PREM PERF NON-DETERGENT SAE 30 MOTOR OIL	Version: 1.2
NP75115	

#### **SECTION 12. ECOLOGICAL INFORMATION**

## **Ecotoxicity**

# **Components:**

RESIDUAL OILS (PETROLEUM), SOLVENT-DEWAXED:

Toxicity to fish : LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l

Exposure time: 96 h Test Type: static test Test substance: WAF

Method: OECD Test Guideline 203

Remarks: No toxicity at the limit of solubility

Toxicity to daphnia and other

aquatic invertebrates

: EL50 (Daphnia magna (Water flea)): > 10,000 mg/l Exposure time: 48 h

Test Type: static test Test substance: WAF

Method: OECD Test Guideline 202

Toxicity to algae : NOEL (Pseudokirchneriella subcapitata (green algae)): >=

100 mg/l

End point: Growth inhibition Exposure time: 72 h Test Type: static test Test substance: WAF

Method: OECD Test Guideline 201

Toxicity to fish (Chronic

toxicity)

: NOELR (Oncorhynchus mykiss (rainbow trout)): Calculated >=

1,000 mg/l

Exposure time: 14 d

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: NOEL (Daphnia (water flea)): 10 mg/l

Exposure time: 21 d Test substance: WAF

Method: OECD Test Guideline 211

## Persistence and degradability

## **Components:**

RESIDUAL OILS (PETROLEUM), SOLVENT-DEWAXED:

Biodegradability : Result: Not readily biodegradable.

Biodegradation: 2 - 4 % Exposure time: 28 d

Method: OECD Test Guideline 301B

### Bioaccumulative potential

#### **Components:**

No data available

Valvoline.	Page: 9
SAFETY DATA SHEET	Revision Date: 07/31/2016
	Print Date: 9/27/2016
	SDS Number: R0169702
NAPA® PREM PERF NON-DETERGENT SAE 30 MOTOR OIL	Version: 1.2
NP75115	

# Mobility in soil

# **Components:**

No data available

### Other adverse effects

No data available

**Product:** 

Additional ecological

information

: No data available

# **Components:**

# **SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods** 

General advice : Dispose of in accordance with all applicable local, state and

federal regulations.

Contaminated packaging : Empty remaining contents.

# **SECTION 14. TRANSPORT INFORMATION**

# International transport regulations

## **REGULATION**

ID NUMBER	PROPER SHIPPING NAME	*HAZARD	SUBSIDIARY	PACKING	MARINE
		CLASS	HAZARDS	GROUP	POLLUTANT /
					LTD. QTY.

## **U.S. DOT - ROAD**

Not dangerous goods	

# CFR\_RAIL\_C

Not dangerous goods

# **U.S. DOT - INLAND WATERWAYS**

Not dangerous goods	

### TDG ROAD C

Not dangerous goods

# TDG\_RAIL\_C

Not dangerous goods

Valvoline.	Page: 10
SAFETY DATA SHEET	Revision Date: 07/31/2016
	Print Date: 9/27/2016
	SDS Number: R0169702
NAPA® PREM PERF NON-DETERGENT SAE 30 MOTOR OIL	Version: 1.2
NP75115	

	1 h 1 h A /	_
TDG	INWT	

Not dangerous goods

# INTERNATIONAL MARITIME DANGEROUS GOODS

Not dangerous goods

# INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

Not dangerous goods

# INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

Not dangerous goods

# MX\_DG

Not dangerous goods

# \*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Marine pollutant	no	l
		ı

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

### **SECTION 15. REGULATORY INFORMATION**

SARA 311/312 Hazards : No SARA Hazards

SARA 313

Component(s)SARA 313

: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop 65 Proposition 65 warnings are not required for this product

based on the results of a risk assessment.

The components of this product are reported in the following inventories:

TSCA : On TSCA Inventory

DSL : All components of this product are on the Canadian DSL.

AUSTR : On the inventory, or in compliance with the inventory

Valvoline.	Page: 11
SAFETY DATA SHEET	Revision Date: 07/31/2016
	Print Date: 9/27/2016
	SDS Number: R0169702
NAPA® PREM PERF NON-DETERGENT SAE 30 MOTOR OIL	Version: 1.2
NP75115	

ENCS : On the inventory, or in compliance with the inventory

KECL : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

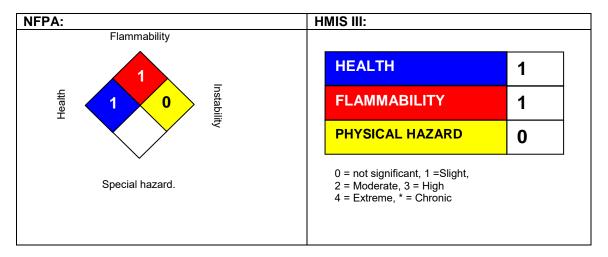
## **Inventories**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

#### **SECTION 16. OTHER INFORMATION**

## **Further information**

Revision Date: 07/31/2016



### NFPA Flammable and Combustible Liquids Classification

Combustible Liquid Class IIIB

# Full text of H-Statements referred to under sections 2 and 3.

H315 Causes skin irritation.

# **Further information**

Sources of key data used to compile the Safety Data Sheet Valvoline internal data including own and sponsored test reports

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

Valvoline.	Page: 12
SAFETY DATA SHEET	Revision Date: 07/31/2016
	Print Date: 9/27/2016
	SDS Number: R0169702
NAPA® PREM PERF NON-DETERGENT SAE 30 MOTOR OIL	Version: 1.2
NP75115	

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Valvoline's Environmental Health and Safety Department (1-800-825-8654).

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet:

ACGIH: American Conference of Industrial Hygienists

BEI : Biological Exposure Index

CAS: Chemical Abstracts Service (Division of the American Chemical Society).

CMR: Carcinogenic, Mutagenic or Toxic for Reproduction

FG: Food grade

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

H-statement : Hazard Statement

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization

ICAO-TI (ICAO): Technical Instructions by the "International Civil Aviation Organization"

IMDG: International Maritime Code for Dangerous Goods

ISO: International Organization for Standardization

logPow: octanol-water partition coefficient

LCxx: Lethal Concentration, for xx percent of test population

LDxx: Lethal Dose, for xx percent of test population. ICxx: Inhibitory Concentration for xx of a substance

Ecxx : Effective Concentration of xx N.O.S.: Not Otherwise Specified

OECD: Organization for Economic Co-operation and Development

OEL : Occupational Exposure Limit
P-Statement : Precautionary Statement
PBT : Persistent , Bioaccumulative and Toxic

PPE: Personal Protective Equipment STEL: Short-term exposure limit STOT: Specific Target Organ Toxicity

TLV : Threshold Limit Value TWA : Time-weighted average

vPvB: Very Persistent and Very Bioaccumulative

WEL: Workplace Exposure Level

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

DOT: Department of Transportation

FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act HMIRC: Hazardous Materials Information Review Commission

HMIS: Hazardous Materials Identification System NFPA: National Fire Protection Association

NIOSH: National Institute for Occupational Safety and Health OSHA: Occupational Safety and Health Administration

PMRA: Health Canada Pest Management Regulatory Agency

RTK: Right to Know

WHMIS: Workplace Hazardous Materials Information System

Valvoline	Page: 1
SAFETY DATA SHEET	Revision Date: 09/28/2016
	Print Date: 10/3/2016
	SDS Number: R0170829
NAPA® PREMIUM CONVENTIONAL SAE 10W-30 MOTOR OIL	Version: 1.2
783506	

29 CFR 1910.1200 (OSHA HazCom 2012)

### **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

**Product identifier** 

Trade name : NAPA® PREMIUM CONVENTIONAL SAE 10W-30

MOTOR OIL

# Relevant identified uses of the substance or mixture and uses advised against

Details of the supplier of the safety data	Emergency telephone number
sheet	1-800-VALVOLINE
Valvoline LLC	
3499 Blazer Parkway	Regulatory Information Number
Lexington, KY 40509	1-800-TEAMVAL
United States of America (USA)	
1-800-TEAMVAL	Product Information
	1-800-TEAMVAL

# **SECTION 2. HAZARDS IDENTIFICATION**

### **GHS Classification**

This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).

### **GHS** label elements

This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).

#### Other hazards

None known.

# **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

Hazardous components

nazaraeae compenente			
Chemical name	CAS-No.	Classification	Concentration (%)
Benzenesulfonic acid, C10-60- alkyl derivs., sodium salts	90194-32-4	Eye Irrit. 2A; H319	6.225
HYDROTREATED LIGHT PARAFFINIC DISTILLATE	64742-55-8	Asp. Tox. 1; H304	2.8117

#### **SECTION 4. FIRST AID MEASURES**

Valvoline	Page: 2
SAFETY DATA SHEET	Revision Date: 09/28/2016
	Print Date: 10/3/2016
	SDS Number: R0170829
NAPA® PREMIUM CONVENTIONAL SAE 10W-30 MOTOR OIL	Version: 1.2
783506	

General advice : No hazards which require special first aid measures.

If inhaled If breathed in, move person into fresh air.

If unconscious, place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact : First aid is not normally required. However, it is

recommended that exposed areas be cleaned by washing

with soap and water.

In case of eye contact : Remove contact lenses.

Protect unharmed eye.

If swallowed : Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Most important symptoms and effects, both acute and

delayed

: Acute aspiration of large amounts of oil-laden material may produce a serious aspiration pneumonia. Patients who aspirate these oils should be followed for the development of long-term sequelae. Repeated aspiration of small quantities of mineral oil can produce chronic inflammation of the lungs (i.e. lipoid pneumonia) that may progress to pulmonary fibrosis. Symptoms are often subtle and radiological changes appear worse than clinical abnormalities. Occasionally, persistent cough, irritation of the upper respiratory tract, shortness of breath with exertion, fever, and bloody sputum occur. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary

abnormalities.

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through

the skin may include:

stomach or intestinal upset (nausea, vomiting, diarrhea)

irritation (nose, throat, airways)

Notes to physician : No hazards which require special first aid measures.

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Water spray Foam

Carbon dioxide (CO2)

Dry chemical

Specific hazards during

firefighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

Valvoline.	Page: 3
SAFETY DATA SHEET	Revision Date: 09/28/2016
	Print Date: 10/3/2016
	SDS Number: R0170829
NAPA® PREMIUM CONVENTIONAL SAE 10W-30 MOTOR OIL	Version: 1.2
783506	

Hazardous combustion

products

: carbon dioxide and carbon monoxide

Hydrocarbons

Specific extinguishing

methods

: Product is compatible with standard fire-fighting agents.

Product is compatible with standard fire-fighting agents.

Further information : Standard procedure for chemical fires.

Standard procedure for chemical fires.

Special protective equipment

for firefighters

: In the event of fire, wear self-contained breathing apparatus.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Persons not wearing protective equipment should be excluded

from area of spill until clean-up has been completed.

Environmental precautions : Prevent further leakage or spillage if safe to do so.

Methods and materials for containment and cleaning up

: Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

Other information : Comply with all applicable federal, state, and local regulations.

### **SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : Smoking, eating and drinking should be prohibited in the

application area.

For personal protection see section 8.

Materials to avoid : No materials to be especially mentioned.

# **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Components with workplace control parameters

Components	CAS-No.	Value type	Control	Basis
		(Form of	parameters /	
		exposure)	Permissible	
			concentration	

Valvoline.	Page: 4
SAFETY DATA SHEET	Revision Date: 09/28/2016
	Print Date: 10/3/2016
	SDS Number: R0170829
NAPA® PREMIUM CONVENTIONAL SAE 10W-30 MOTOR OIL	Version: 1.2
783506	

HYDROTREATED LIGHT PARAFFINIC DISTILLATE	64742-55-8	TWA	5 mg/m3 Mist	OSHA Z-1
		TWA	5 mg/m3 Inhalable fraction	ACGIH
		TWA	5 mg/m3 Mist	OSHA P0
		TWA	5 mg/m3 Mist	NIOSH REL
		ST	10 mg/m3 Mist	NIOSH REL
		PEL	5 mg/m3 particulate	CAL PEL

Hazardous components without workplace control parameters

Components	CAS-No.
Benzenesulfonic acid, C10-60-	90194-32-4
alkyl derivs., sodium salts	

**Engineering measures** : General room ventilation should be adequate for normal

conditions of use. However, if unusual operating conditions exist, provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known,

suspected or apparent adverse effects.

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally

required.

Eye protection : Not required under normal conditions of use. Wear splash-

proof safety goggles if material could be misted or splashed

into eyes.

Skin and body protection : Wear as appropriate:

Safety shoes

Wear resistant gloves (consult your safety equipment

supplier).

Hygiene measures : General industrial hygiene practice.

# **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state : liquid

Odour : No data available

Odour Threshold : No data available

pH : No data available

Valvoline	Page: 5
SAFETY DATA SHEET	Revision Date: 09/28/2016
	Print Date: 10/3/2016
	SDS Number: R0170829
NAPA® PREMIUM CONVENTIONAL SAE 10W-30 MOTOR OIL	Version: 1.2
783506	

Melting point/freezing point : No data available

Boiling point/boiling range : No data available

Flash point : > 199 °C

Method: Cleveland open cup

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : 0.0133333 hPa (21.11 °C)

Calculated Vapor Pressure

Relative vapour density : No data available

Relative density : No data available

Density : 0.8686 g/cm3 (15.56 °C)

Solubility(ies)

Water solubility : No data available

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: No data available

Thermal decomposition :

No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : 70 mm2/s (40 °C)

Oxidizing properties : No data available

### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : Stable under recommended storage conditions.

Valvoline	Page: 6
SAFETY DATA SHEET	Revision Date: 09/28/2016
	Print Date: 10/3/2016
	SDS Number: R0170829
NAPA® PREMIUM CONVENTIONAL SAE 10W-30 MOTOR OIL	Version: 1.2
702500	
783506	

Possibility of hazardous

reactions

: Product will not undergo hazardous polymerization.

Conditions to avoid : excessive heat

Incompatible materials : Strong oxidizing agents

Hazardous decomposition

products carbon dioxide and carbon monoxide

Hydrocarbons

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

Information on likely routes of : Inhalation

exposure Skin contact

Eye Contact Ingestion

### **Acute toxicity**

Not classified based on available information.

# Skin corrosion/irritation

Not classified based on available information.

### **Components:**

Benzenesulfonic acid, C10-60-alkyl derivs., sodium salts:

Result: No skin irritation

# HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

Result: Slight, transient irritation

### Serious eye damage/eye irritation

Not classified based on available information.

**Product:** 

Remarks: Unlikely to cause eye irritation or injury.

# **Components:**

Benzenesulfonic acid, C10-60-alkyl derivs., sodium salts:

Result: Irritating to eyes.

# HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

Result: Slight, transient irritation

# Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

# Carcinogenicity

Not classified based on available information.

# Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Valvoline.	Page: 7
SAFETY DATA SHEET	Revision Date: 09/28/2016
	Print Date: 10/3/2016
	SDS Number: R0170829
NAPA® PREMIUM CONVENTIONAL SAE 10W-30 MOTOR OIL	Version: 1.2
783506	

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

**Aspiration toxicity** 

Not classified based on available information.

**Product:** 

No aspiration toxicity classification

**Components:** 

HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

May be fatal if swallowed and enters airways.

**Further information** 

Product:

Remarks: No data available

#### **SECTION 12. ECOLOGICAL INFORMATION**

# **Ecotoxicity**

**Product:** 

**Ecotoxicology Assessment** 

Acute aquatic toxicity : Not classified based on available information.

Chronic aquatic toxicity : Not classified based on available information.

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

No data available

Product:

Additional ecological

information

: No data available

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods** 

General advice : Dispose of in accordance with all applicable local, state and

federal regulations.

Contaminated packaging : Empty remaining contents.

## **SECTION 14. TRANSPORT INFORMATION**

# International transport regulations

							Page: 8
		VU	line	TM			
SAFETY D	ATA SHEET						Date: 09/28/2016
							nt Date: 10/3/2016
NADA® DDEMII	JM CONVENTIONAL	CAT 10\\\	20 MOTOR OI			SDS N	umber: R0170829 Version: 1.2
NAPA® PREIVIN	JIVI CONVENTIONAL	SAE 10VV-	-30 WOTOR OI	L			version. 1.2
783506							
REGULATION							
ID NUMBER	PROPER SHIPPIN	IG NAME	*HAZARD	SUBS	SIDIARY	PACKING	MARINE
			CLASS	HAZA	ARDS	GROUP	POLLUTANT /
							LTD. QTY.
U.S. DOT - RO							
	Not dangerous goo	ods					
CFR_RAIL_C							
	Not dangerous goo	ods					
U.S. DOT - INLA	ND WATERWAYS						
	Not dangerous goo	ods					
TDG_ROAD_C							
	Not dangerous goo	ods					
TDG_RAIL_C							
	Not dangerous god	ods					
TDG INWT C							
	Not dangerous god	ods					
INTERNATIONAL	L MARITIME DANGE	EROUS GO	ODS				
	Not dangerous god	ods					
INTERNATIONAL	L AIR TRANSPORT	ASSOCIAT	ION - CARGO				
	Not dangerous goo						
INTERNATIONAL	L AIR TRANSPORT	ASSOCIAT	ION - PASSEN	IGER			
	Not dangerous god						
MX_DG							
	Not dangerous god	ods					
*ORM - ORM-D	CBL = COMBUSTIB	I E LIQUID					
OKIVI – OKIVI-D,	ODE - COMIDUSTID	יבב בועטוט					
Marine pol	lutant	no					
ſ		1					i

Valvoline	Page: 9
SAFETY DATA SHEET	Revision Date: 09/28/2016
	Print Date: 10/3/2016
	SDS Number: R0170829
NAPA® PREMIUM CONVENTIONAL SAE 10W-30 MOTOR OIL	Version: 1.2
783506	

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

#### **SECTION 15. REGULATORY INFORMATION**

SARA 311/312 Hazards : No SARA Hazards

SARA 313 This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop 65 WARNING! This product contains a chemical known to the

State of California to cause cancer.

NAPHTHALENE 91-20-3

The components of this product are reported in the following inventories:

TSCA : On TSCA Inventory

DSL : All components of this product are on the Canadian DSL

AICS : On the inventory, or in compliance with the inventory

ENCS : Contact your sales representative for additional information.

KECI : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : Low volume exemption

IECSC : q (quantity restricted)

# Inventories

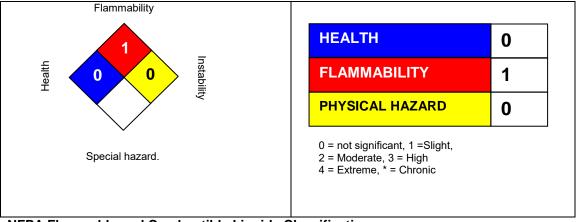
AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

### **SECTION 16. OTHER INFORMATION**

Further information Revision Date: 09/28/2016

NFPA: HMIS III:

Valvoline	Page: 10
SAFETY DATA SHEET	Revision Date: 09/28/2016
	Print Date: 10/3/2016
	SDS Number: R0170829
NAPA® PREMIUM CONVENTIONAL SAE 10W-30 MOTOR OIL	Version: 1.2
783506	



NFPA Flammable and Combustible Liquids Classification

Combustible Liquid Class IIIB

#### **Full text of H-Statements**

H304 May be fatal if swallowed and enters airways.

H319 Causes serious eye irritation.

Sources of key data used to compile the Safety Data Sheet Valvoline internal data including own and sponsored test reports

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Valvoline's Environmental Health and Safety Department (1-800-VALVOLINE).

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

ACGIH: American Conference of Industrial Hygienists

BEI: Biological Exposure Index

CAS: Chemical Abstracts Service (Division of the American Chemical Society).

CMR: Carcinogenic, Mutagenic or Toxic for Reproduction

FG: Food grade

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

H-statement : Hazard Statement

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization

ICAO-TI (ICAO): Technical Instructions by the "International Civil Aviation Organization"

Valvoline	Page: 11
SAFETY DATA SHEET	Revision Date: 09/28/2016
	Print Date: 10/3/2016
	SDS Number: R0170829
NAPA® PREMIUM CONVENTIONAL SAE 10W-30 MOTOR OIL	Version: 1.2
783506	

IMDG : International Maritime Code for Dangerous Goods

ISO: International Organization for Standardization

logPow: octanol-water partition coefficient

LCxx: Lethal Concentration, for xx percent of test population

LDxx: Lethal Dose, for xx percent of test population. ICxx: Inhibitory Concentration for xx of a substance

Ecxx : Effective Concentration of xx N.O.S.: Not Otherwise Specified

OECD: Organization for Economic Co-operation and Development

OEL: Occupational Exposure Limit
P-Statement: Precautionary Statement
PBT: Persistent, Bioaccumulative and Toxic

PPE : Personal Protective Equipment

STEL: Short-term exposure limit STOT: Specific Target Organ Toxicity

TLV : Threshold Limit Value TWA : Time-weighted average

vPvB: Very Persistent and Very Bioaccumulative

WEL: Workplace Exposure Level

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

**DOT**: Department of Transportation

FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act HMIRC: Hazardous Materials Information Review Commission

HMIS : Hazardous Materials Identification System NFPA : National Fire Protection Association

NIOSH: National Institute for Occupational Safety and Health OSHA: Occupational Safety and Health Administration

PMRA: Health Canada Pest Management Regulatory Agency

RTK: Right to Know

WHMIS: Workplace Hazardous Materials Information System

Valvoline	Page: 1
SAFETY DATA SHEET	Revision Date: 09/28/2016
	Print Date: 1/10/2017
	SDS Number: R0393459
NAPA® FULL SYNTHETIC SAE 10W-30 MOTOR OIL	Version: 1.6
880684	

29 CFR 1910.1200 (OSHA HazCom 2012)

#### **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

**Product identifier** 

Trade name : NAPA® FULL SYNTHETIC SAE 10W-30 MOTOR OIL

# Relevant identified uses of the substance or mixture and uses advised against

Details of the supplier of the safety data	Emergency telephone number
sheet	1-800-VALVOLINE
Valvoline LLC	
3499 Blazer Parkway	Regulatory Information Number
Lexington, KY 40509	1-800-TEAMVAL
United States of America (USA)	
1-800-TEAMVAL	Product Information
	1-800-TEAMVAL

# **SECTION 2. HAZARDS IDENTIFICATION**

### **GHS Classification**

This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).

### **GHS** label elements

This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).

#### Other hazards

None known.

# **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

**Hazardous components** 

Chemical name	CAS-No.	Classification	Concentration (%)
Benzenesulfonic acid, C10-60-alkyl derivs., sodium salts	90194-32-4	Eye Irrit. 2A; H319	6.2234

### **SECTION 4. FIRST AID MEASURES**

General advice : No hazards which require special first aid measures.

If inhaled : If breathed in, move person into fresh air.

Valvoline	Page: 2
SAFETY DATA SHEET	Revision Date: 09/28/2016
	Print Date: 1/10/2017
	SDS Number: R0393459
NAPA® FULL SYNTHETIC SAE 10W-30 MOTOR OIL	Version: 1.6
880684	

If unconscious, place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact : First aid is not normally required. However, it is

recommended that exposed areas be cleaned by washing

with soap and water.

In case of eye contact : Remove contact lenses.

Protect unharmed eye.

If swallowed : Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Most important symptoms and effects, both acute and

delayed

: No symptoms known or expected.

Notes to physician : No hazards which require special first aid measures.

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Water spray Foam

Carbon dioxide (CO2)

Dry chemical

Specific hazards during

firefighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion

products

: carbon dioxide and carbon monoxide

Hydrocarbons

Specific extinguishing

methods

:

Product is compatible with standard fire-fighting agents.

Further information : Standard procedure for chemical fires.

Special protective equipment

for firefighters

: In the event of fire, wear self-contained breathing apparatus.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, : Persons not wearing protective equipment should be excluded

Valvoline	Page: 3
SAFETY DATA SHEET	Revision Date: 09/28/2016
	Print Date: 1/10/2017
	SDS Number: R0393459
NAPA® FULL SYNTHETIC SAE 10W-30 MOTOR OIL	Version: 1.6
880684	

protective equipment and emergency procedures

from area of spill until clean-up has been completed.

Environmental precautions

: Prevent further leakage or spillage if safe to do so.

Methods and materials for containment and cleaning up

: Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

Other information : Comply with all applicable federal, state, and local regulations.

#### **SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : Smoking, eating and drinking should be prohibited in the

application area.

For personal protection see section 8.

Materials to avoid : No materials to be especially mentioned.

### **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

# Hazardous components without workplace control parameters

Components	CAS-No.
Benzenesulfonic acid, C10-60-	90194-32-4
alkyl derivs., sodium salts	

**Engineering measures** : General room ventilation should be adequate for normal

conditions of use. However, if unusual operating conditions exist, provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known,

suspected or apparent adverse effects.

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally

required.

Eye protection : Not required under normal conditions of use. Wear splash-

proof safety goggles if material could be misted or splashed

into eyes.

Skin and body protection : Wear as appropriate:

Safety shoes

Wear resistant gloves (consult your safety equipment

supplier).

<b>Valvoline</b>	Page: 4
SAFETY DATA SHEET	Revision Date: 09/28/2016
	Print Date: 1/10/2017
	SDS Number: R0393459
NAPA® FULL SYNTHETIC SAE 10W-30 MOTOR OIL	Version: 1.6
880684	

Hygiene measures : General industrial hygiene practice.

### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state : liquid

Colour : amber

Odour : No data available

Odour Threshold : No data available

pH : No data available

Melting point/freezing point : No data available

Boiling point/boiling range : 662 °F / 350 °C

(1,013.333333 hPa)

Calculated Phase Transition Liquid/Gas

Flash point : > 199 °C

Method: Cleveland open cup

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : 0.1333333 hPa (20 °C)

Calculated Vapor Pressure

Relative vapour density : No data available

Relative density : 0.853 (60.00 °F)

Density : 0.8527 g/cm3 (15.56 °C)

Solubility(ies)

Water solubility : negligible

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: No data available

Thermal decomposition : No data available

Valvoline	Page: 5
SAFETY DATA SHEET	Revision Date: 09/28/2016
	Print Date: 1/10/2017
	SDS Number: R0393459
NAPA® FULL SYNTHETIC SAE 10W-30 MOTOR OIL	Version: 1.6
880684	

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : 10.7 mm2/s

Oxidizing properties : No data available

#### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous

reactions

: Product will not undergo hazardous polymerization.

Incompatible materials : Strong oxidizing agents

Hazardous decomposition

products No hazardous decomposition products are known.

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

Information on likely routes of : Inhalation

exposure

Inhalation Skin contact

Eye Contact Ingestion

### **Acute toxicity**

Not classified based on available information.

### Skin corrosion/irritation

Not classified based on available information.

### Components:

Benzenesulfonic acid, C10-60-alkyl derivs., sodium salts:

Result: No skin irritation

### Serious eye damage/eye irritation

Not classified based on available information.

#### **Product:**

Remarks: Unlikely to cause eye irritation or injury.

# Components:

Benzenesulfonic acid, C10-60-alkyl derivs., sodium salts:

Result: Irritating to eyes.

## Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Valvoline	Page: 6
SAFETY DATA SHEET	Revision Date: 09/28/2016
	Print Date: 1/10/2017
	SDS Number: R0393459
NAPA® FULL SYNTHETIC SAE 10W-30 MOTOR OIL	Version: 1.6
880684	

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

**Aspiration toxicity** 

Not classified based on available information.

**Further information** 

**Product:** 

Remarks: No data available

#### **SECTION 12. ECOLOGICAL INFORMATION**

# **Ecotoxicity**

### **Product:**

Ecotoxicology Assessment

Acute aquatic toxicity : Not classified based on available information.

Chronic aquatic toxicity : Not classified based on available information.

### Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

No data available

**Product:** 

Additional ecological

information

: No data available

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods** 

General advice : Dispose of in accordance with all applicable local, state and

federal regulations.

Contaminated packaging : Empty remaining contents.

## **SECTION 14. TRANSPORT INFORMATION**

# International transport regulations

							Page: 7
	Val	VΠ	line				
SAFETY D	ATA SHEET			TM			Date: 09/28/2016
							t Date: 1/10/2017
NADAO ELILI. O	MITHETIO 0 4 E 40	W 00 MOTO	ND 011			SDS N	umber: R0393459
NAPA® FULL S	YNTHETIC SAE 10	W-30 MOTC	OR OIL				Version: 1.6
880684							
							_
REGULATION ID NUMBER	PROPER SHIPPI	NG NAME	*HAZARD	SURS	IDIARY	PACKING	MARINE
ID NOWIDER	TROI ER SHILLT	INO NAME	CLASS	HAZA		GROUP	POLLUTANT / LTD. QTY.
U.S. DOT - RO	AD						
	Not dangerous go	oods					
CFR_RAIL_C							
	Not dangerous go	oods					
U.S. DOT - INLAI	ND WATERWAYS						
	Not dangerous go	oods					
TDG_ROAD_C							
	Not dangerous go	oods					
TDG_RAIL_C							
IDO_KAIL_O	Not dangerous go	oods					
TDC INWT C							
TDG_INWT_C	Not dangerous go	nnds					
	Not dangerous go	J043					
INTERNATIONAL	L MARITIME DANG  Not dangerous go		OODS				
	Not dangerous go	ous					
INTERNATIONAL	L AIR TRANSPORT		TION - CARGO				
	Not dangerous go	oods					
INTERNATIONAL	L AIR TRANSPORT		TION - PASSEN	IGER			
	Not dangerous go	oods					
MX_DG							
	Not dangerous go	oods					
*ORM = ORM-D,	CBL = COMBUSTI	BLE LIQUID	)				
		1					
Marine pol	lutant	no					

Valvoline.	Page: 8
SAFETY DATA SHEET	Revision Date: 09/28/2016
	Print Date: 1/10/2017
	SDS Number: R0393459
NAPA® FULL SYNTHETIC SAE 10W-30 MOTOR OIL  880684	Version: 1.6

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

#### **SECTION 15. REGULATORY INFORMATION**

SARA 311/312 Hazards : No SARA Hazards

SARA 313 This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop 65 Proposition 65 warnings are not required for this product

based on the results of a risk assessment.

The components of this product are reported in the following inventories:

TSCA : On TSCA Inventory

DSL : All components of this product are on the Canadian DSL

AICS : On the inventory, or in compliance with the inventory

ENCS : On the inventory, or in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : Low volume exemption

# **Inventories**

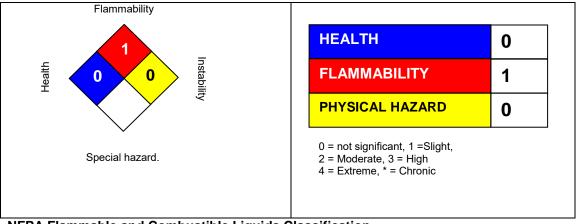
AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

#### **SECTION 16. OTHER INFORMATION**

**Further information** 

Revision Date: 09/28/2016

Valvoline	Page: 9
SAFETY DATA SHEET	Revision Date: 09/28/2016
	Print Date: 1/10/2017
	SDS Number: R0393459
NAPA® FULL SYNTHETIC SAE 10W-30 MOTOR OIL	Version: 1.6
880684	



NFPA Flammable and Combustible Liquids Classification

Combustible Liquid Class IIIB

#### **Full text of H-Statements**

H319 Causes serious eye irritation.

Sources of key data used to compile the Safety Data Sheet Valvoline internal data including own and sponsored test reports The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Valvoline's Environmental Health and Safety Department (1-800-VALVOLINE).

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet:

ACGIH: American Conference of Industrial Hygienists

BEI : Biological Exposure Index

CAS: Chemical Abstracts Service (Division of the American Chemical Society).

CMR: Carcinogenic, Mutagenic or Toxic for Reproduction

FG: Food grade

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

H-statement : Hazard Statement

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization

ICAO-TI (ICAO): Technical Instructions by the "International Civil Aviation Organization"

IMDG: International Maritime Code for Dangerous Goods

Valvoline	Page: 10
SAFETY DATA SHEET	Revision Date: 09/28/2016
	Print Date: 1/10/2017
	SDS Number: R0393459
NAPA® FULL SYNTHETIC SAE 10W-30 MOTOR OIL	Version: 1.6
880684	

ISO: International Organization for Standardization

logPow: octanol-water partition coefficient

LCxx: Lethal Concentration, for xx percent of test population

LDxx: Lethal Dose, for xx percent of test population. ICxx: Inhibitory Concentration for xx of a substance

Ecxx : Effective Concentration of xx N.O.S.: Not Otherwise Specified

OECD: Organization for Economic Co-operation and Development

OEL: Occupational Exposure Limit
P-Statement: Precautionary Statement
PBT: Persistent, Bioaccumulative and Toxic

PPE : Personal Protective Equipment STEL : Short-term exposure limit STOT : Specific Target Organ Toxicity

TLV : Threshold Limit Value TWA : Time-weighted average

vPvB : Very Persistent and Very Bioaccumulative

WEL: Workplace Exposure Level

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

DOT: Department of Transportation

FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act HMIRC: Hazardous Materials Information Review Commission

HMIS : Hazardous Materials Identification System NFPA : National Fire Protection Association

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety and Health Administration

PMRA: Health Canada Pest Management Regulatory Agency

RTK: Right to Know

WHMIS: Workplace Hazardous Materials Information System

Valvoline.	Page: 1
SAFETY DATA SHEET	Revision Date: 07/31/2016
	Print Date: 9/27/2016
	SDS Number: R0366793
NAPA® PREMIUM CONVENTIONAL SAE 5W-20 MOTOR OIL	Version: 1.1
NP75150	

29 CFR 1910.1200 (OSHA HazCom 2012)

### **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

**Product identifier** 

Trade name : NAPA® PREMIUM CONVENTIONAL SAE 5W-20

MOTOR OIL

#### Recommended use of the chemical and restrictions on use

Use of the Substance/Mixture : MOTOR OIL

Details of the supplier of the safety data sheet	Emergency telephone number 1-800-VALVOLINE
Valvoline LLC 3499 Blazer Parkway Lexington, KY 40509	Regulatory Information Number 1-800-TEAMVAL
United States of America	Product Information
SDS@valvoline.com	1-800-TEAMVAL

# **SECTION 2. HAZARDS IDENTIFICATION**

### **GHS Classification**

This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).

# **GHS Label element**

This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).

### Other hazards

None known.

# **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

Chemical nature : Defatter

# **Hazardous components**

Chemical Name	CAS-No.	Classification	Concentration (%)
HEAVY PARAFFINIC	64742-54-7	Asp. Tox. 1; H304	32.29

Valvoline.	Page: 2
SAFETY DATA SHEET	Revision Date: 07/31/2016
	Print Date: 9/27/2016
	SDS Number: R0366793
NAPA® PREMIUM CONVENTIONAL SAE 5W-20 MOTOR OIL	Version: 1.1
NP75150	

DISTILLATE			
HYDROTREATED LIGHT PARAFFINIC DISTILLATE	64742-55-8	Asp. Tox. 1; H304	6.46
Benzenesulfonic acid, C10-60- alkyl derivs., sodium salts	90194-32-4	Eye Irrit. 2A; H319	6.22
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC	64742-65-0	Asp. Tox. 1; H304	1.69

#### **SECTION 4. FIRST AID MEASURES**

General advice : No hazards which require special first aid measures.

If inhaled : If breathed in, move person into fresh air.

If unconscious place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact : First aid is not normally required. However, it is

recommended that exposed areas be cleaned by washing

with soap and water.

In case of eye contact : Remove contact lenses.

Protect unharmed eye.

If swallowed : Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Most important symptoms and effects, both acute and

delayed

: Acute aspiration of large amounts of oil-laden material may produce a serious aspiration pneumonia. Patients who aspirate these oils should be followed for the development of long-term sequelae. Repeated aspiration of small quantities of mineral oil can produce chronic inflammation of the lungs (i.e. lipoid pneumonia) that may progress to pulmonary fibrosis. Symptoms are often subtle and radiological changes appear worse than clinical abnormalities. Occasionally, persistent cough, irritation of the upper respiratory tract, shortness of breath with exertion, fever, and bloody sputum occur. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary

abnormalities.

Valvoline.	Page: 3
SAFETY DATA SHEET	Revision Date: 07/31/2016
	Print Date: 9/27/2016
	SDS Number: R0366793
NAPA® PREMIUM CONVENTIONAL SAE 5W-20 MOTOR OIL	Version: 1.1
NP75150	

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through

the skin may include:

acne

stomach or intestinal upset (nausea, vomiting, diarrhea)

irritation (nose, throat, airways)

Notes to physician : No hazards which require special first aid measures.

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Water spray Foam

Carbon dioxide (CO2)

Dry chemical

Specific hazards during

firefighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion

products

: carbon dioxide and carbon monoxide

Hydrocarbons

Specific extinguishing

methods

•

Product is compatible with standard fire-fighting agents.

Further information : Standard procedure for chemical fires.

Special protective equipment

for firefighters

: In the event of fire, wear self-contained breathing apparatus.

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Persons not wearing protective equipment should be excluded

from area of spill until clean-up has been completed.

Environmental precautions : Prevent further leakage or spillage if safe to do so.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

Other information : Comply with all applicable federal, state, and local regulations.

Valvoline.	Page: 4
SAFETY DATA SHEET	Revision Date: 07/31/2016
	Print Date: 9/27/2016
	SDS Number: R0366793
NAPA® PREMIUM CONVENTIONAL SAE 5W-20 MOTOR OIL	Version: 1.1
NP75150	

# **SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : Smoking, eating and drinking should be prohibited in the

application area.

For personal protection see section 8.

Conditions for safe storage : Electrical installations / working materials must comply with

the technological safety standards.

Materials to avoid : No materials to be especially mentioned.

# **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC	64742-65-0	PEL	500 ppm 2,000 mg/m3	OSHA_TRA NS
		REL	5 mg/m3 Mist.	NIOSH/GUID E
		STEL	10 mg/m3 Mist.	NIOSH/GUID E
		PEL	5 mg/m3 Mist.	OSHA_TRA NS
		TWA	5 mg/m3 Mist.	Z1A
		TWA	400 ppm 1,600 mg/m3	Z1A
HYDROTREATED LIGHT PARAFFINIC DISTILLATE	64742-55-8	REL	5 mg/m3 Mist.	NIOSH/GUID E
		STEL	10 mg/m3 Mist.	NIOSH/GUID E
		PEL	5 mg/m3 Mist.	OSHA_TRA NS

**Engineering measures** 

: General room ventilation should be adequate for normal conditions of use. However, if unusual operating conditions exist, provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Valvoline.	Page: 5
SAFETY DATA SHEET	Revision Date: 07/31/2016
	Print Date: 9/27/2016
	SDS Number: R0366793
NAPA® PREMIUM CONVENTIONAL SAE 5W-20 MOTOR OIL	Version: 1.1
NP75150	

# Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally

required.

Eye protection : Not required under normal conditions of use. Wear splash-

proof safety goggles if material could be misted or splashed

into eyes.

Skin and body protection : Wear as appropriate:

Safety shoes

Wear resistant gloves (consult your safety equipment

supplier).

Hygiene measures : General industrial hygiene practice.

# **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state : liquid

Odour : No data available

Odour Threshold : No data available

pH : No data available

Melting point/freezing point : No data available

Boiling point/boiling range : No data available

Flash point :  $> 390 \, ^{\circ}\text{F} / > 199 \, ^{\circ}\text{C}$ 

Method: Cleveland open cup

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit : 6 %(V)

Calculated Explosive Limit

Lower explosion limit : 1 %(V)

Calculated Explosive Limit

Vapour pressure : 0.0012 hPa (20 °C)

Calculated Vapor Pressure

Relative vapour density : No data available

Relative density : No data available

Density : 0.8620 g/cm3 (15.56 °C)

Valvoline.		Page: 6
SAFETY DATA SHEET	Revision Date: 07	7/31/2016
	Print Date: 9	9/27/2016
	SDS Number: F	R0366793
NAPA® PREMIUM CONVENTIONAL SAE 5W-20 MOTOR OIL	Ver	sion: 1.1
NP75150		

Solubility(ies)

Water solubility : No data available

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: No data available

Thermal decomposition : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : 50 mm2/s (40 °C)

Oxidizing properties : No data available

# **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous

reactions

: Product will not undergo hazardous polymerization.

Conditions to avoid : excessive heat

Incompatible materials : Strong oxidizing agents

Hazardous decomposition

products

carbon dioxide and carbon monoxide

Hydrocarbons

# **SECTION 11. TOXICOLOGICAL INFORMATION**

Information on likely routes of : Inhalation

exposure

Inhalation
Skin contact

Eye Contact Ingestion

**Acute toxicity** 

Not classified based on available information.

Components:

**HEAVY PARAFFINIC DISTILLATE:** 

Valvoline.	Page: 7
SAFETY DATA SHEET	Revision Date: 07/31/2016
	Print Date: 9/27/2016
	SDS Number: R0366793
NAPA® PREMIUM CONVENTIONAL SAE 5W-20 MOTOR OIL	Version: 1.1
NP75150	

Acute oral toxicity : LD 50 (Rat): > 15 g/kg

Acute dermal toxicity : LD 50 (Rabbit): > 5 g/kg

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC:

Acute oral toxicity : LD 50 (Rat): > 5,000 mg/kg

Acute dermal toxicity : LD 50 (Rabbit): > 5,000 mg/kg

#### Skin corrosion/irritation

Not classified based on available information.

#### **Product:**

Result: Repeated exposure may cause skin dryness or cracking.

# **Components:**

**HEAVY PARAFFINIC DISTILLATE:** 

Result: Mildly irritating to skin

### HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

Result: Mildly irritating to skin

Benzenesulfonic acid, C10-60-alkyl derivs., sodium salts:

Result: Not irritating to skin

## DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC:

Result: Mildly irritating to skin

# Serious eye damage/eye irritation

Not classified based on available information.

# **Product:**

Remarks: Unlikely to cause eye irritation or injury.

### Components:

**HEAVY PARAFFINIC DISTILLATE:** 

Result: Not irritating to eyes

# HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

Result: Mildly irritating to eyes

Benzenesulfonic acid, C10-60-alkyl derivs., sodium salts:

Result: Irritating to eyes

### DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC:

Result: Mildly irritating to eyes

# Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

### Germ cell mutagenicity

Not classified based on available information.

Valvoline.	Page: 8
SAFETY DATA SHEET	Revision Date: 07/31/2016
	Print Date: 9/27/2016
	SDS Number: R0366793
NAPA® PREMIUM CONVENTIONAL SAE 5W-20 MOTOR OIL	Version: 1.1
NP75150	

# Carcinogenicity

Not classified based on available information.

#### Reproductive toxicity

Not classified based on available information.

### STOT - single exposure

Not classified based on available information.

## STOT - repeated exposure

Not classified based on available information.

### **Aspiration toxicity**

Not classified based on available information.

#### **Product:**

No aspiration toxicity classification

# **Components:**

#### HEAVY PARAFFINIC DISTILLATE:

May be fatal if swallowed and enters airways.

#### HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

May be fatal if swallowed and enters airways.

# DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC:

May be fatal if swallowed and enters airways.

#### **Further information**

### **Product:**

Remarks: No data available

### Carcinogenicity:

IARC No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

**OSHA**No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

# **SECTION 12. ECOLOGICAL INFORMATION**

### **Ecotoxicity**

#### **Components:**

### **HEAVY PARAFFINIC DISTILLATE:**

Toxicity to fish : LL50 (Fish): > 100 mg/l

Toxicity to daphnia and other : EL50 (Aquatic invertebrates): > 10,000 mg/l

Valvoline.	Page: 9
SAFETY DATA SHEET	Revision Date: 07/31/2016
	Print Date: 9/27/2016
	SDS Number: R0366793
NAPA® PREMIUM CONVENTIONAL SAE 5W-20 MOTOR OIL	Version: 1.1
NP75150	

aquatic invertebrates

Toxicity to algae : EL50 (Algae, algal mat (Algae)): > 100 mg/l

Toxicity to fish (Chronic

toxicity)

: NOEC (Fish): 10 mg/l

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: NOEC (Aquatic invertebrates): 10 mg/l

### Persistence and degradability

#### **Components:**

No data available

#### **Bioaccumulative potential**

#### **Components:**

No data available

#### Mobility in soil

#### **Components:**

No data available

#### Other adverse effects

No data available

**Product:** 

Additional ecological

information

: No data available

#### **Components:**

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods** 

General advice : Dispose of in accordance with all applicable local, state and

federal regulations.

Contaminated packaging : Empty remaining contents.

#### **SECTION 14. TRANSPORT INFORMATION**

#### International transport regulations

#### REGULATION

112002/111011					
ID NUMBER	PROPER SHIPPING NAME	*HAZARD	SUBSIDIARY	PACKING	MARINE
		CLASS	HAZARDS	GROUP	POLLUTANT /
					LTD. QTY.

Valvoline.	Page: 10
SAFETY DATA SHEET	Revision Date: 07/31/2016
	Print Date: 9/27/2016
	SDS Number: R0366793
NAPA® PREMIUM CONVENTIONAL SAE 5W-20 MOTOR OIL	Version: 1.1
NP75150	

	Not dangerous goods
	dan igo. care geome
SED DAIL C	
CFR_RAIL_C	Not dangerous goods
	Not dangerous goods
J.S. DOT - INL	AND WATERWAYS
	Not dangerous goods
TDG_ROAD_C	
	Not dangerous goods
TDG_RAIL_C	
	Not dangerous goods
TDG_INWT_C	
	Not dangerous goods
INTERNATION	AL MARITIME DANGEROUS GOODS
	Not dangerous goods
INTERNATION	AL AIR TRANSPORT ASSOCIATION - CARGO
	Not dangerous goods
NTERNATION	AL AIR TRANSPORT ASSOCIATION - PASSENGER
	Not dangerous goods
MX_DG	

## \*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Marine pollutant	no

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

Valvoline.	Page: 11
SAFETY DATA SHEET	Revision Date: 07/31/2016
	Print Date: 9/27/2016
	SDS Number: R0366793
NAPA® PREMIUM CONVENTIONAL SAE 5W-20 MOTOR OIL	Version: 1.1
NP75150	

#### **SECTION 15. REGULATORY INFORMATION**

SARA 311/312 Hazards : No SARA Hazards

**SARA 313** Component(s)SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Pennsylvania Right To Know

HEAVY PARAFFINIC DISTILLATE 64742-54-7 50.00 - 70.00 % HEAVY PARAFFINIC DISTILLATE 30.00 - 50.00 % 64742-54-7 HYDROTREATED LIGHT PARAFFINIC 64742-55-8 5.00 - 10.00 % DISTILLATE Benzenesulfonic acid, C10-60-alkyl derivs., 90194-32-4 5.00 - 10.00 % sodium salts DISTILLATES (PETROLEUM), SOLVENT-64742-65-0 1.00 - 5.00 % DEWAXED HEAVY PARAFFINIC **New Jersey Right To Know** HEAVY PARAFFINIC DISTILLATE 64742-54-7 HEAVY PARAFFINIC DISTILLATE 64742-54-7

50.00 - 70.00 % 30.00 - 50.00 % HYDROTREATED LIGHT PARAFFINIC 64742-55-8 5.00 - 10.00 % DISTILLATE Benzenesulfonic acid, C10-60-alkyl derivs., 90194-32-4 5.00 - 10.00 % sodium salts POLYOLEFIN AMIDE ALKENEAMINE 1.00 - 5.00 % Not Assigned DISTILLATES (PETROLEUM), SOLVENT-64742-65-0 1.00 - 5.00 % **DEWAXED HEAVY PARAFFINIC** 

California Prop 65 Proposition 65 warnings are not required for this product

based on the results of a risk assessment.

The components of this product are reported in the following inventories:

**TSCA** : On TSCA Inventory

DSL : All components of this product are on the Canadian DSL.

**AUSTR** : On the inventory, or in compliance with the inventory

**ENCS** : Contact your sales representative for additional information.

Valvoline.	Page: 12
SAFETY DATA SHEET	Revision Date: 07/31/2016
	Print Date: 9/27/2016
	SDS Number: R0366793
NAPA® PREMIUM CONVENTIONAL SAE 5W-20 MOTOR OIL	Version: 1.1
NP75150	

KECL : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : Contact your sales representative for additional information.

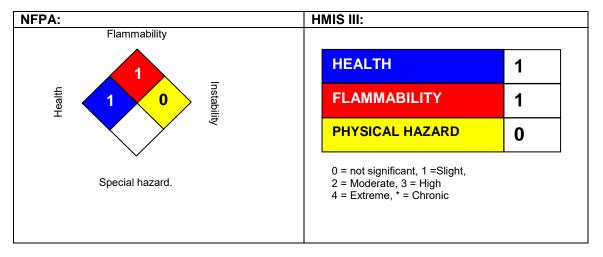
#### Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

#### **SECTION 16. OTHER INFORMATION**

#### **Further information**

Revision Date: 07/31/2016



#### NFPA Flammable and Combustible Liquids Classification

Combustible Liquid Class IIIB

#### Full text of H-Statements referred to under sections 2 and 3.

H304 May be fatal if swallowed and enters airways.

H319 Causes serious eye irritation.

Sources of key data used to compile the Safety Data Sheet Valvoline internal data including own and sponsored test reports

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the

Valvoline.	Page: 13
SAFETY DATA SHEET	Revision Date: 07/31/2016
	Print Date: 9/27/2016
	SDS Number: R0366793
NAPA® PREMIUM CONVENTIONAL SAE 5W-20 MOTOR OIL	Version: 1.1
NP75150	

information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Valvoline's Environmental Health and Safety Department (1-800-825-8654).

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data

ACGIH: American Conference of Industrial Hygienists

BEI : Biological Exposure Index

CAS: Chemical Abstracts Service (Division of the American Chemical Society).

CMR: Carcinogenic, Mutagenic or Toxic for Reproduction

FG: Food grade

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

H-statement : Hazard Statement

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization

ICAO-TI (ICAO): Technical Instructions by the "International Civil Aviation Organization"

IMDG : International Maritime Code for Dangerous Goods

ISO: International Organization for Standardization

logPow: octanol-water partition coefficient

LCxx : Lethal Concentration, for xx percent of test population

LDxx: Lethal Dose, for xx percent of test population. ICxx: Inhibitory Concentration for xx of a substance

Ecxx : Effective Concentration of xx N.O.S.: Not Otherwise Specified

OECD: Organization for Economic Co-operation and Development

OEL : Occupational Exposure Limit
P-Statement : Precautionary Statement
PBT : Persistent , Bioaccumulative and Toxic

PPE: Personal Protective Equipment STEL: Short-term exposure limit STOT: Specific Target Organ Toxicity

TLV : Threshold Limit Value TWA : Time-weighted average

vPvB: Very Persistent and Very Bioaccumulative

WEL: Workplace Exposure Level

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

**DOT**: Department of Transportation

FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act HMIRC: Hazardous Materials Information Review Commission

HMIS: Hazardous Materials Identification System NFPA: National Fire Protection Association

NIOSH: National Institute for Occupational Safety and Health OSHA: Occupational Safety and Health Administration

PMRA: Health Canada Pest Management Regulatory Agency

RTK: Right to Know

WHMIS: Workplace Hazardous Materials Information System

# AIKEN CHEMICAL COMPANY, INC. Safety Data Sheet NAPA Mac's Aluminum Brightener

### **SECTION 1: Identification**

#### 1.1 Product identifier

Product name NAPA Mac's Aluminum Brightener

Product number 1458; 1478 Brand Mac's

#### 1.3 Recommended use of the chemical and restrictions on use

Cleaning cast aluminum, stainless steel, copper, brass, and fiberglass.

Do not use on sealed, painted, or polished surfaces.

#### 1.4 Supplier's details

Name Aiken Chemical Company, Inc.

Address P.O. Box 27147

Greenville, SC 29616

USA

Telephone 864-968-1250 Fax 864-968-1252

email donnie@clean-rite.com

**1.5 Emergency phone number(s)** 800-424-9300

#### **SECTION 2: Hazard identification**

#### 2.1 Classification of the substance or mixture

- Acute toxicity, oral (C.4.1), Cat. 4
- Skin corrosion/irritation (C.4.4), Cat. 1B
- Eye damage/irritation (C.4.5), Cat. 2A

## 2.2 GHS label elements, including precautionary statements

#### **Pictogram**



Signal word Danger

Hazard statement(s)

H302 Harmful if swallowed

H314 Causes severe skin burns and eye damage

H319 Causes serious eye irritation

Precautionary statement(s)

P260 Do not breathe fume/gas/mist/vapors/spray.
P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON

CENTER /doctor if you feel unwell.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse

skin with water/shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

## **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

#### **Hazardous components**

1. Phosphoric acid liquid

Concentration 1 - 9 % (weight) CAS no. 7664-38-2

2. Sulfuric acid

Concentration 1 - 9 % (weight) CAS no. 7664-93-9

3. Ammonium Bifluoride

Concentration 1 - 5 % (weight) CAS no. 1341-49-7

4. ETHYLENE GLYCOL MONOBUTYL ETHER

Concentration 1 - 5 % (weight) CAS no. 111-76-2

#### **SECTION 4: First-aid measures**

#### 4.1 Description of necessary first-aid measures

General advice Consult a physician/doctor if necessary. Take proper precautions to ensure

your own health and safety before attempting rescue and providing first aid.

Show this material safety data sheet to the doctor in attendance.

If inhaled IF INHALED: Remove person to fresh air and keep comfortable for breathing.

If not breathing, give artificial respiration. Consult a physician. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

Rinse mouth with water.

In case of skin contact Remove contaminated clothing, jewelry and shoes immediately. Flush

affected area with large amounts of water, then use soap or mild detergent and large amounts of water for 15-20 minutes to cleanse area. Get medical

attention if you feel unwell.

In case of eye contact Rinse cautiously with water for several minutes. Remove contact lenses if

present and easy to do. Continue rinsing. Get immediate medical attention.

If swallowed Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or

doctor/physician if you feel unwell.

Personal protective equipment for first-aid responders

First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for

exposure exists.

#### 4.2 Most important symptoms/effects, acute and delayed

Effects of Overexposure: May cause severe burns to skin or eyes.

#### 4.3 Indication of immediate medical attention and special treatment needed, if necessary

If any symptoms listed about become present and or persist, contact a physician immediately. Treat symptomatically.

## **SECTION 5: Fire-fighting measures**

#### 5.1 Suitable extinguishing media

Use extinguishing media appropriate for surrounding fire.

#### 5.2 Specific hazards arising from the chemical

Hydrogen fluoride, nitrogen oxides, ammonia may be produced if overheated.

#### 5.3 Special protective actions for fire-fighters

Fire fighters should enter area only if they are protected from all contact with the material. Full protective clothing, including self-contained breathing apparatus, coat, pants, gloves, boots and bands around legs, arms, and waist, should be worn. No skin surfaces should be exposed.

## **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

Dam spills if possible; then neutralize spill with soda ash or lime. Flush with water to a chemical sewer or disposal system. This neutralization procedure should be conducted with good ventilation. Wear chemical protective clothing, gloves and goggles.

#### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

#### 6.3 Methods and materials for containment and cleaning up

SMALL SPILLS: Contain and absorb with absorbent material and place into containers for later disposal. Wash site of spillage thoroughly with water. LARGE SPILLS: Dike far ahead of spill to prevent further movement. Recover by pumping or by using a suitable absorbent material and place into containers for later disposal. Dispose in suitable waste container.

#### Reference to other sections

Use proper personal protective equipment as indicated in Section 8.

## **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Ensure adequate ventilation. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. For precautions see section 2.2.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in a tightly closed container and in a cool, dry, well-ventilated area away from incompatible substances.

#### Specific end use(s)

Cleans and brightens cast aluminum surfaces. Cleans stainless steel. Can be used to clean Copper and Brass. May be used on fiberglass.

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

#### 1. Phosphoric acid liquid (CAS: 7664-38-2)

TWA: 1 mg/l (ACGIH) STEL: 3 mg/l (OSHA)

2. Sulfuric acid (CAS: 7664-93-9)

TWA: 1 mg/l (ACGIH)

STEL: 3 mg/l (OSHA)

3. Ammonium Bifluoride (CAS: 1341-49-7)

TWA: 205 mg/l (ACGIH)

4. ETHYLENE GLYCOL MONOBUTYL ETHER (CAS: 111-76-2)

TWA: 50 ppm (ACGIH)
TWA: 25 ppm (OSHA)

#### 8.2 Appropriate engineering controls

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

## 8.3 Individual protection measures, such as personal protective equipment (PPE)

#### **Pictograms**











#### Eye/face protection

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Protective Gloves: Wear appropriate protective gloves to prevent skin exposure. Other Protective Clothing: Wear appropriate protective clothing to prevent skin exposure.

#### **Body protection**

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

Distribution, Workplace and Household Settings: No special protective equipment required. Product Manufacturing Plant (needed at Product-Producing Plant ONLY): In case of insufficient ventilation wear suitable respiratory equipment

#### **Environmental exposure controls**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## **SECTION 9: Physical and chemical properties**

#### Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)

Clear/Colorless
Odor

Slight acidic odor

Odor threshold No data available.

pH 3.0 - 3.5

Melting point/freezing point No data available.

Initial boiling point and boiling range No data available. Flash point No data available.

Evaporation rate No data available. Flammability (solid, gas) No data available. Upper/lower flammability limits No data available.

Upper/lower explosive limits

Vapor pressure

Vapor density

No data available.

No data available.

No data available.

Relative density 1.0588

Solubility(ies) No data available.

Partition coefficient: n-octanol/water Auto-ignition temperature

Decomposition temperature

Viscosity

Explosive properties Oxidizing properties No data available. No data available.

#### Other safety information

No data available.

## **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

Low reactivity with metals. None under normal use conditions.

#### 10.2 Chemical stability

Stable under recommended storage conditions.

#### 10.3 Possibility of hazardous reactions

Low

#### 10.4 Conditions to avoid

Extremely high temperatures, over exposure to metals.

#### 10.5 Incompatible materials

Strong oxidizing agents

#### 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Nitrogen oxides (NOx), Hydrogen fluoride Other decomposition products - No data available In the event of fire: see section 5

## **SECTION 11: Toxicological information**

#### Information on toxicological effects

#### **Acute toxicity**

#### **Product:**

Acute Toxicity, oral (.4.1.), Cat. 4

Acute Toxicity, inhalation, Not Classified

Acute Toxicity, dermal, Not Classified

----

#### Ingredients:

Phosphoric Acid:

LD50 Oral - Rat - 1530 mg/kg

LC50 Inhalation - rabbit - 1.7 mg/l

LD50 Dermal - No Data

----

Sulfuric Acid:

LD50 Oral - Rat - 2140 mg/kg

LC50 Inhalation - rat- 2 h - 510 mg/l

LD50 Dermal - No Data

----

Ammonium Bi Fluoride:

LD50 Oral - Rat - 130 mg/kg

LC50 Inhalation - rabbit - No Data

LD50 Dermal - No Data

-----

Ethylene Glycol Monobutyl Ether:

LD50 Oral - Rat - 880 mg/kg

LC50 Inhalation - No Data

LD50 Dermal - rabbit - male - 1060 mg/kg

Skin corrosion/irritation

**Product:** 

Skin corrosion/irritation (C.4.4), Cat. 1B

----

Ingredients:

Phosphoric acid liquid: No data available

----

Sulfuric acid: Skin - Rabbit Result: Extremely corrosive and destructive to tissue.

----

Ammonium Bi fluoride: No data available

----

Ethylene Glycol Monobutyl Ether: Result: Skin irritation - 20 h

Serious eye damage/irritation

**Product:** 

Eye damage/irritation (C.4.5), Cat. 2A

----

Ingredients:

Phosphoric acid liquid: No data available

----

Sulfuric acid: Rabbit - Result: Corrosive to eyes

----

Ammonium Bi fluoride: No data available

----

Ethylene Glycol Monobutyl Ether: Rabbit - Result: Eye irritation - 24 h

Respiratory or skin sensitization

**Product:** 

Does not cause skin sensitization.

----

Ingredients:

Phosphoric acid liquid: No data available

----

Sulfuric acid: Rabbit - Result: Corrosive to eyes

----

Ammonium Bi fluoride: No data available

----

Ethylene Glycol Monobutyl Ether: Guinea pig Result: Does not cause skin sensitization.

Germ cell mutagenicity

Product: Not Expected

----

Ingredients:

Phosphoric acid liquid: No data available

.\_\_\_

Sulfuric acid: Skin - Rabbit Result: Extremely corrosive and destructive to tissue.

----

Ammonium Bi fluoride: No data available

----

Ethylene Glycol Monobutyl Ether: Hamster - ovary - Result: negative - Mouse - male - Result: negative

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

## **Safety Data Sheet**

### **NAPA Mac's Aluminum Brightener**

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

#### Reproductive toxicity

Product: Not Expected

----

Ingredients:

Phosphoric acid liquid: No Data

----

Sulfuric acid: No Data

----

Ammonium Bi fluoride: No data available

----

Ethylene Glycol Monobutyl Ether: Overexposure may cause reproductive disorder(s) based on tests with laboratory

animals.

#### STOT-single exposure

Product: Not Expected

\_\_\_\_

Ingredients:

Phosphoric acid liquid: No Data

----

Sulfuric acid: No Data

----

Ammonium Bi fluoride: No Data

----

Ethylene Glycol Monobutyl Ether: No Data

#### STOT-repeated exposure

Product: Not Expected

----

Ingredients:

Phosphoric acid liquid: No Data

----

Sulfuric acid: No Data

----

Ammonium Bifluoride: No Data

----

Ethylene Glycol Monobutyl Ether: No Data

#### **Aspiration hazard**

Product: Not Expected

I ... .. .. .

Ingredients:

Phosphoric acid liquid: No Data

----

Sulfuric acid: No Data

----

Ammonium Bifluoride: No Data

----

Ethylene Glycol Monobutyl Ether: No Data

## **SECTION 12: Ecological information**

#### Toxicity Ingredients:

No Data

\P/	A Mac's Aluminum Brightener
I	Phosphoric acid liquid: No Data
:	 Sulfuric acid: Toxicity to fish LC50 - Gambusia affinis (Mosquito fish) - 42 mg/l - 96 h Toxicity to Daphnia and EC50 - Daphnia magna (Water flea) - 29 mg/l - 24 h other aquatic invertebrates
	 Ammonium Bi fluoride: No Data
: :	Ethylene Glycol Monobutyl Ether: Toxicity to fish static test LC50 - Oncorhynchus mykiss (rainbow trout) - 1,474 mg/l - 96 h (OECD Test Guideline 203) Toxicity to Daphnia and other aquatic invertebrates Immobilization EC50 - Daphnia magna (Water flea) - 1,550 mg/l - 48 h (OECD Test Guideline 202) Toxicity to algae Growth inhibition EC50 - Pseudokirchneriella subcapitata (green algae) - 1,840 mg/l - 72 h (OECD Test Guideline 201)
	Persistence and degradability Ingredients: Phosphoric acid liquid: No Data
;	 Sulfuric acid: The methods for determining the biological degradability are not applicable to inorganic substances.
	Ammonium Bi fluoride: No Data
	 Ethylene Glycol Monobutyl Ether: Result: 90.4 % - Readily biodegradable. (OECD Test Guideline 301B) Remarks: The 10 day time window criterion is not fulfilled. Ratio BOD/ThBOD 88 %
	Bioaccumulative potential Ingredients: Phosphoric acid liquid: No Data
	Sulfuric acid: No Data
ļ	Ammonium Bi fluoride: No Data
ĺ	Ethylene Glycol Monobutyl Ether: No Data
	Mobility in soil Ingredients: Phosphoric acid liquid: No Data
;	Sulfuric acid: No Data
ı	Ammonium Bifluoride: No Data
	 Ethylene Glycol Monobutyl Ether:

#### Results of PBT and vPvB assessment

Ingredients:

Phosphoric acid liquid:

No Data

----

Sulfuric acid:

No Data

----

Ammonium Bifluoride:

No Data

----

Ethylene Glycol Monobutyl Ether:

No Data

## **SECTION 13: Disposal considerations**

#### Disposal of the product

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

#### Disposal of contaminated packaging

Dispose of as unused product.

## **SECTION 14: Transport information**

#### DOT (US)

DOT (US)

UN Number: UN1760

Class: 8

Packing Group: II

Proper Shipping Name: CORROSIVE LIQUID N.O.S. (PHOSPHORIC ACID, SULFURIC ACID, AMMONIUM

BIFLUORIDE)

#### **IMDG**

**UN Number:** 

Class:

Packing Group: EMS Number:

Proper Shipping Name:

#### **IATA**

UN Number:

Class:

Packing Group:

Proper Shipping Name:

#### **SECTION 15: Regulatory information**

#### 15.1 Safety, health and environmental regulations specific for the product in question

#### California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

#### **Massachusetts Right to Know Components**

Chemical name: Sulfuric acid CAS number: 7664-93-9

Chemical name: Ammonium bifluoride

CAS number: 1341-49-7

Chemical Name: 2-Butoxyethanol

CAS-No. 111-76-2

## **New Jersey Right to Know Components**

Common name: Sulfuric acid CAS number: 7664-93-9

Common name: Ammonium bifluoride

CAS number: 1341-49-7

#### Pennsylvania Right to Know Components

Chemical name: Sulfuric acid CAS number: 7664-93-9

Chemical name: Ammonium bifluoride

CAS number: 1341-49-7

Chemical Name: 2-Butoxyethanol

CAS-No. 111-76-2

#### **SARA 302 Components**

The following components are subject to reporting levels established by SARA Title III, Section 302:

Chemical name: Sulfuric acid

CAS-No. 7664-93-9

#### SARA 311/312 Hazards

Acute Health Hazard. Chronic Health Hazard

#### **SARA 313 Components**

The following components are subject to reporting levels established by SARA Title III, Section 313:

Chemical name: Sulfuric acid

CAS-No. 7664-93-9

Chemical name: 2-Butoxyethanol

CAS-No. 111-76-2

#### 15.2 Chemical Safety Assessment

NFPA (National Fire Protection Association)

HMIS (Hazardous Material Information System)

Hazards are split into categories each with a 0 to 4 rating, 0 meaning no hazard and 4 meaning high hazard

#### **HMIS Rating**

Aluminum Brightener		
HEALTH	3	
FLAMMABILITY	0	
PHYSICAL HAZARD	0	
PERSONAL PROTECTION		

#### **NFPA Rating**



#### **SECTION 16: Other information**

Abbreviations, acronyms

ACGIH = American Conference of Governmental Industrial Hygienists

bw = body weight

bw/day = body weight/day

EC x =Effect Concentration associated with x% response

GLP = Good Laboratory Practice

IARC = International Agency for Research of Cancer

LC50 = 50% Lethal concentration - Concentration of a chemical in air or a chemical in water which causes the death of 50% (one

half) of a group of test animals

LD50 = 50% Lethal Dose - Chemical amount, given at once, which causes the death of 50% (one half) of a group of test animals

LL = Lethal Loading

NIOSH = National Institute of Occupational Safety and Health

NOAEL = No Observed Adverse Effect Level

NOEC = No Observed Effect Concentration

NOEL = No Observed Effect Level

OECD = Organization for Economic Co-operation and Development

OSHA = Occupational Safety and Health Administration

UVCB = Substance of unknown or Variable composition, Complex reaction products or Biological material

fw = fresh water

mw = marine water

or = occasional release

dw = dry weight

SCBA = Self Contained Breathing Apparatus

Legend

Section 8

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH - National Institute for Occupational Safety and Health

TLV - Threshold Limit Values

PEL - Permissible Exposure Limits

IDHL - Immediately Dangerous to Life or Health concentrations

TWA - Time Weight Average

STEL - Short Term Exposure Limits

S\* - Skin notation

TSCA - Toxic Substance Control Act

#### 16.1 Further information/disclaimer

The information is based on our knowledge to date but does not constitute an assurance of product properties and does not imply a legal contractual relationship.

Safety Data Sheet information is based on the Safety Data Sheet provided by the supplyier.

#### 16.2 Preparation information

Aiken Chemical Company, Inc. P.O. Box 27147 Greenville, SC, 29616

864-968-1250

800-828-1860 864-968-1252 (fax)



## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture

Product name : NAPA Concentrate Antifreeze & Coolant

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Automotive Engine Antifreeze & Coolant

1.3. Details of the supplier of the safety data sheet

Old World Industries, LLC 4065 Commercial Ave. Northbrook, IL 60062 - USA T (847) 559-2000 www.oldworldind.com

1.4. Emergency telephone number

Emergency number : (800) 424-9300; (703) 527 3887 (International)

Chemtrec

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### **GHS-US** classification

Acute Tox. 4 (Oral) H302 STOT RE 2 H373

Full text of H-phrases: see section 16

#### 2.2. Label elements

#### **GHS-US** labelling

Hazard pictograms (GHS-US)



Ѿ

S07 GHS

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H302 - Harmful if swallowed

H373 - May cause damage to organs (kidneys) through prolonged or repeated exposure (oral)

Precautionary statements (GHS-US) : P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P260 - Do not breathe mist, spray, vapors

P264 - Wash affected areas thoroughly after handling P270 - Do not eat, drink or smoke when using this product P280 - Wear personal protective equipment as required

P301+P310 - If swallowed: Immediately call doctor/physician or poison center P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing

P308+P313 - If exposed or concerned: Get medical advice/attention

P405 - Store locked up

P501 - Dispose of contents/container, in a safe manner, to appropriate waste disposal facility,

in accordance with local/regional/national/international regulations

#### 2.3. Other hazards

No additional information available

#### 2.4. Unknown acute toxicity (GHS-US)

No data available

#### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Not applicable

04/14/2015 EN (English) Page 1

#### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### 3.2. Mixture

Name	Product identifier	% by wt	GHS-US classification
ethylene glycol	(CAS No) 107-21-1	90 - 97	Acute Tox. 4 (Oral), H302
diethylene glycol	(CAS No) 111-46-6	< 5	Acute Tox. 4 (Oral), H302 STOT RE 2, H373
water	(CAS No) 7732-18-5	< 4	Not classified
denatonium benzoate	(CAS No) 3734-33-6	30 - 50 ppm	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures general

: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek immediate medical advice. Allow the victim to rest. If not breathing, give

artificial respiration. If breathing is difficult, give oxygen.

First-aid measures after skin contact

: Remove contaminated clothing. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Rinse immediately with plenty of water (for at least 15 minutes). Get medical advice/attention. Specific treatment (see supplemental first aid

instructions on this label).

First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse immediately with

plenty of water for 15 minutes, lifting lower and upper lids. If eye irritation persists: Rinse immediately with plenty of water. Cet median advise lattertion

immediately with plenty of water. Get medical advice/attention.

First-aid measures after ingestion : Obtain emergency medical attention. Rinse mouth. If the person is fully conscious, make him/her drink two glasses of water. Never give an unconscious person anything to drink. Do

him/her drink two glasses of water. Never give an unconscious person anything to drink. Do NOT induce vomiting. Call a POISON CENTER/doctor/physician if you feel unwell. If medical advice is delayed, and if the person has swallowed a moderate volume of material (a few ounces), then give three to four ounces of hard liquor, such as whiskey. For children, give

proportionally less liquor, according to weight.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Causes damage to organs (kidneys) oral.

Symptoms/injuries after skin contact : Causes skin irritation.

Symptoms/injuries after eye contact : Causes serious eye damage.

Symptoms/injuries after ingestion : Swallowing a small quantity of this material will result in serious health hazard. The lethal dose

in humans is estimated to be 100 mL (3 oz).

#### 4.3. Indication of any immediate medical attention and special treatment needed

A more effective intravenous antidote for physician uses is 4-methylpyrazaole, a potent inhibitor of alcohol dehydrogenases, which effectively blocks the formation of toxic metabolites of ethylene glycol. It has been used to decrease the metabolic consequences of ethylene glycol poisoning before metabolic acidosis coma, seizures, and renal failure have occured.

#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : Water fog. Fine water spray. Alcohol-resistant foam. Foam. Carbon dioxide. Dry chemical

powder. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream. May spread fire.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard : During a fire, smoke may contain the original material in addition to combustion products of

varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide.

are not limited to. Carbon monoxide. Carbon dioxide.

Reactivity : No dangerous reactions known under normal conditions of use.

#### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Special protective equipment for fire fighters : Wear positive pressure self-contained breathing apparatus (SCBA). Protective fire fighting clothing (includes fire-fighting helmet, coat, pants, boots and gloves).

04/14/2015 EN (English) 2/8

#### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Refer to section 8.2.

Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect

spillage. Store away from other materials.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Provide good ventilation in process area to prevent formation

of vapor

Hygiene measures : Do not eat, drink or smoke when using this product. Wash affected areas thoroughly after

handling.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Heat sources.

Keep container closed when not in use. Product may become solid at temperatures below -18 °C (0 °F). Do not store near food, foodstuffs, drugs or potable water supplies. Do not cut, drill,

weld, use a blowtorch on, etc. containers even when empty.

Incompatible products : Keep away from strong acids, strong bases and oxidizing agents.

Incompatible materials : Sources of ignition.

#### 7.3. Specific end use(s)

No additional information available

#### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

ethylene glycol (107-21-1)		
USA ACGIH	ACGIH Ceiling (mg/m³)	100.00 mg/m³
USA ACGIH	Remark (ACGIH)	Upper Respiratory Tract (URT) & Eye irritant

#### 8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure. Gloves. Safety glasses.



Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses.

Respiratory protection : If exposed to levels above exposure limits wear appropriate respiratory protection.

Other information : Do not eat, drink or smoke during use.

#### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid
Color : Green
Odor : Mild

04/14/2015 EN (English) 3/8

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Odor threshold : No data available

pH 50% water solution : 10.5 - 11
Relative evaporation rate (butylacetate=1) : Nil

Freezing point :  $-18 \, ^{\circ}\text{C} \, (0 \, ^{\circ}\text{F})$ Boiling point :  $158 \, ^{\circ}\text{C} \, (317 \, ^{\circ}\text{F})$ 

Flash point : 116 °C (241 °F) [100% Ethylene Glycol] *ASTM D56*Auto-ignition temperature : 400 °C (752 °F) [100% Ethylene Glycol] *Literature* 

Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapor pressure : < 0.1 mm Hg @ 20 °C
Relative vapor density at 20 °C : No data available

Specific Gravity : 1.12

Density : 1.12 kg/l (9.3 lbs/gal) Solubility : Water: Complete Log Pow : No data available : No data available Log Kow Viscosity, kinematic : No data available : No data available Viscosity, dynamic : No data available Explosive properties Oxidizing properties : No data available **Explosive limits** : 3.2 - 15.3 vol %

9.2. Other information

VOC content : 0.00 %

#### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

#### 10.2. Chemical stability

Stable.

#### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

#### 10.4. Conditions to avoid

Keep away from any flames or sparking source. Extremely high or low temperatures.

#### 10.5. Incompatible materials

Keep away from strong acids, strong bases and oxidizing agents.

## 10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide. Fume. Alcohols. Aldehydes. Ethers.

## **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed.

ethylene glycol (107-21-1)		
LD50 oral rat	> 5,000 mg/kg (Rat)	
ATE US (oral)	500 mg/kg bodyweight	
diethylene glycol (111-46-6)		
LD50 oral rat	12,565 mg/kg (Rat)	
LD50 dermal rabbit	11,890 mg/kg (Rabbit)	
ATE US (oral)	500 mg/kg bodyweight	
ATE US (dermal)	11,890 mg/kg bodyweight	
denatonium benzoate (3734-33-6)		
LD50 oral rat	584 mg/kg (Rat)	

04/14/2015 EN (English) 4/8

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

ethylene glycol (107-21-1)	
LD50 dermal rabbit	> 2,000 mg/kg (Rabbit)
ATE US (oral)	584 mg/kg bodyweight
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).
Aspiration hazard	: Not classified
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met. Harmful if swallowed.
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye damage.
Symptoms/injuries after ingestion	: Swallowing a small quantity of this material will result in serious health hazard. The lethal dose in humans is estimated to be 100 mL (3 oz).

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

ethylene glycol (107-21-1)		
LC50 fish 1	53,000 mg/l (96 h; Pimephales promelas; Static system)	
EC50 Daphnia 1	> 10,000 mg/l (24 h; Daphnia magna)	
LC50 fish 2	40,761 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss); Static system)	
Threshold limit algae 1	> 10,000 mg/l (168 h; Scenedesmus quadricauda)	
Threshold limit algae 2	2,000 mg/l (192 h; Microcystis aeruginosa)	
diethylene glycol (111-46-6)		
LC50 fish 1	> 5,000 ppm (24 h; Carassius auratus)	
LC50 other aquatic organisms 1	1,174 mg/l (Xenopus laevis)	
EC50 Daphnia 1	> 10,000 mg/l (24 h; Daphnia magna)	
LC50 fish 2	61,072 ppm (168 h; Poecilia reticulata)	
TLM fish 1	> 32,000 mg/l (96 h; Gambusia affinis)	
TLM other aquatic organisms 1	> 1,000 ppm (96 h)	
Threshold limit other aquatic organisms 1	1,174 mg/l (72 h; Xenopus laevis; Toxicity test)	
Threshold limit other aquatic organisms 2	10,745 mg/l (16 h; Protozoa; Toxicity test)	
Threshold limit algae 1	2,700 mg/l (168 h; Scenedesmus quadricauda)	
Threshold limit algae 2	100 mg/l (Selenastrum capricornutum)	
denatonium benzoate (3734-33-6)		
LC50 fish 1	> 1,000 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)	
EC50 Daphnia 1	13 mg/l (48 h; Daphnia magna)	

## 12.2. Persistence and degradability

ethylene glycol (107-21-1)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil.
Biochemical oxygen demand (BOD)	0.47 g O₂/g substance
Chemical oxygen demand (COD)	1.24 g O <sub>2</sub> /g substance
ThOD	1.29 g O₂/g substance
BOD (% of ThOD)	0.36 % ThOD
diethylene glycol (111-46-6)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Photolysis in the air.
Biochemical oxygen demand (BOD)	0.02 g O₂/g substance
Chemical oxygen demand (COD)	1.51 g O₂/g substance
ThOD	1.51 g O <sub>2</sub> /g substance

04/14/2015 EN (English) 5/8

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

ethylene glycol (107-21-1)		
BOD (% of ThOD) 0.015 % ThOD		
denatonium benzoate (3734-33-6)		
Persistence and degradability	Biodegradability in water: no data available. No (test) data on mobility of the substance available.	

#### 12.3. Bioaccumulative potential

ethylene glycol (107-21-1)		
BCF fish 1	10 (72 h; Leuciscus idus)	
BCF other aquatic organisms 1	0.21 - 0.6 (Procambarus sp.; Chronic)	
BCF other aquatic organisms 2	190 (24 h; Algae)	
Log Pow	-1.34 (Experimental value)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	
diethylene glycol (111-46-6)		
Log Pow	-1.98	
Bioaccumulative potential	Bioaccumulation: not applicable.	
denatonium benzoate (3734-33-6)		
Log Pow	1.78 (Estimated value)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	

#### 12.4. Mobility in soil

ethylene glycol (107-21-1)		
Surface tension 0.048 N/m (20 °C / 68 °F)		
diethylene glycol (111-46-6)		
Surface tension	0.0485 N/m	

#### 12.5. Other adverse effects

Effect on ozone layer : No known effect on the ozone layer

Effect on global warming : No known ecological damage caused by this product.

Other information : Avoid release to the environment.

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose of contents/container, in a safe manner, to appropriate waste disposal facility, in

accordance with local/regional/national/international regulations.

: 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140

Ecology - waste materials : Avoid release to the environment.

#### **SECTION 14: Transport information**

In accordance with DOT

Transport document description : UN3082 Environmentally hazardous substances, liquid, n.o.s., 9, III

UN-No.(DOT) : 3082 DOT NA no. : UN3082

Proper Shipping Name (DOT) : Environmentally hazardous substances, liquid, n.o.s.

Department of Transportation (DOT) Hazard

Classes

Hazard labels (DOT) : 9 - Class 9 (Miscellaneous dangerous materials)



DOT Symbols : G - Identifies PSN requiring a technical name

Packing group (DOT) : III - Minor Danger

DOT Packaging Exceptions (49 CFR 173.xxx) : 155
DOT Packaging Non Bulk (49 CFR 173.xxx) : 203
DOT Packaging Bulk (49 CFR 173.xxx) : 241

04/14/2015 EN (English) 6/8

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

DOT Quantity Limitations Passenger aircraft/rail : No limit

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : No limit

CFR 175.75)

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel.

Other information : Non Bulk: Not regulated by the US D.O.T. (in quantities under 5,000 lbs in any one inner

package).

**ADR** 

No additional information available

Transport by sea

UN-No. (IMDG) : Not regulated by IMDG (in quantities under 5,000 lbs in any one inner package)

Air transport

UN-No.(IATA) : Not regulated by IATA (in quantities under 5,000 lbs in any one inner package)

#### **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

Torri Co i cuorum regunumente		
NAPA Concentrate Antifreeze & Coolant		
EPA TSCA Regulatory Flag	Toxic Substances Control Act (TSCA): The intentional ingredients of this product are listed	
ethylene glycol (107-21-1)		
Listed on the United States TSCA (Toxic Substat Listed on United States SARA Section 313	nces Control Act) inventory	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	5000 lb(s)	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard Ethylene glycol is subject to Tier I and/or Tier II annual inventory reporting.	
SARA Section 313 - Emission Reporting	Ethylene glycol is subject to Form R Reporting requirements.	
diethylene glycol (111-46-6)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
denatonium benzoate (3734-33-6)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		

#### 15.2. International regulations

#### **CANADA**

CANADA	
NAPA Concentrate Antifreeze & Coolant	
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects

#### **WHMIS Classification**



Class D Division 2 Subdivision A - Very toxic material causing other toxic effects

#### **EU-Regulations**

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

04/14/2015 EN (English) 7/8

#### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### 15.2.2. National regulations

#### **NAPA Concentrate Antifreeze & Coolant**

DSL (Canada): The intentional ingredients of this product are listed ECL (South Korea): The intentional ingredients of this product are listed. EINECS (Europe): The intentional ingredients of this product are listed ENCS (Japan): The intentional ingredients of this product are listed

#### 15.3. US State regulations

#### ethylene glycol (107-21-1)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

#### diethylene glycol (111-46-6)

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

#### **SECTION 16: Other information**

#### Full text of H-phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3,
	Respiratory tract irritation
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H373	May cause damage to organs through prolonged or repeated exposure

NFPA health hazard : 1 - Exposure could cause irritation but only minor residual

injury even if no treatment is given.

NFPA fire hazard : 1 - Must be preheated before ignition can occur.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions,

and are not reactive with water.



**HMIS III Rating** 

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 1 Slight Hazard
Physical : 0 Minimal Hazard

Personal Protection : B

SDS GHS US (GHS HazCom 2012) OWI

Old World Industries, LLC makes no warranty, representation or guarantee as to the accuracy, sufficiency or completeness of the material set forth herein. It is the user's responsibility to determine the safety, toxicity and suitability of his own use, handling and disposal of this product. Since actual use by others is beyond our control, no warranty, expressed or implied, is made by Old World Industries, LLC as to the effects of such use, the results to be obtained or the safety and toxicity of this product referred to herein. The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

04/14/2015 EN (English) 8/8



## Oatey® Purple Primer and Oatey® Clear Primer Oatey Co.

Version No: 1.1

Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

Issue Date: **10/19/2023**Print Date: **10/19/2023**S.GHS.USA.EN

#### **SECTION 1 Identification**

#### **Product Identifier**

Product name	Oatey® Purple Primer and Oatey® Clear Primer
Synonyms	Not Available
Proper shipping name	Flammable liquids, n.o.s. Acetone and Cyclohexanone
Other means of identification	Purple Primer: 30755, 30756, 30757, 30758, 30759, Clear Primer: 30750, 30751, 30752, 30753, 30754

#### Recommended use of the chemical and restrictions on use

Relevant identified uses	Joining PVC Pipes

## Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Registered company name	Oatey Co.
Address	20600 Emerald Parkway, Cleveland, OH 44135 United States Ohio 44135 United States
Telephone	216-267-7100
Fax	Not Available
Website	<u>oatey.com</u>
Email	info@oatey.com

#### **Emergency phone number**

Association / Organisation	Chemtrec
Emergency telephone numbers	1-800-424-9300 (Outside the US 1-703-527-3887)
Other emergency telephone numbers	1-877-740-5015 (Emergency First Aid)

### SECTION 2 Hazard(s) identification

#### Classification of the substance or mixture

Classification	Flammable Liquids Category 2, Serious Eye Damage/Eye Irritation Category 2A, Specific Target Organ Toxicity - Single
	Exposure (Narcotic Effects) Category 3, Carcinogenicity Category 2

#### Label elements

Hazard pictogram(s)







Signal word Da

Danger

 Version No: 1.1
 Page 2 of 13
 Issue Date: 10/19/2023

#### Oatey® Purple Primer and Oatey® Clear Primer

Print Date: 10/19/2023

#### Hazard statement(s)

Highly flammable liquid and vapour.
Causes serious eye irritation.
May cause drowsiness or dizziness.
Suspected of causing cancer.

#### Hazard(s) not otherwise classified

Repeated exposure may cause skin dryness or cracking. May form explosive peroxides. Additional details on the carcinogenicity classification are provided in Section 11.

#### Precautionary statement(s) Prevention

Obtain special instructions before use.
Keep away from heat/sparks/open flames/hot surfaces No smoking.
Keep container tightly closed.
Use only outdoors or in a well-ventilated area.
Wear protective gloves, protective clothing, eye protection and face protection.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/intrinsically safe equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Avoid breathing mist/vapours/spray.
Do not handle until all safety precautions have been read and understood.
Wash all exposed external body areas thoroughly after handling.

#### Precautionary statement(s) Response

IF exposed or concerned: Get medical advice/ attention.
In case of fire: Use alcohol resistant foam or normal protein foam to extinguish.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.
If eye irritation persists: Get medical advice/attention.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.

#### Precautionary statement(s) Storage

Store in a well-ventilated place. Keep cool.
Store locked up.

## Precautionary statement(s) Disposal

Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

### **SECTION 3 Composition / information on ingredients**

#### **Substances**

See section below for composition of Mixtures

#### **Mixtures**

CAS No	%[weight]	Name
67-64-1*	40-50	Acetone
108-94-1*	20-30	cyclohexanone
109-99-9*	10-20	<u>tetrahydrofuran</u>
78-93-3	10-20	methyl ethyl ketone

Version No: **1.1** Page **3** of **13** Issue Date: **10/19/2023** 

#### Oatey® Purple Primer and Oatey® Clear Primer

Print Date: 10/19/2023

#### **SECTION 4 First-aid measures**

Description of first aid measures		
Eye Contact	If this product comes in contact with the eyes:  Number Wash out immediately with fresh running water.  Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.  Seek medical attention without delay; if pain persists or recurs seek medical attention.  Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.	
Skin Contact	If skin contact occurs:  If skin contact occurs:  Immediately remove all contaminated clothing, including footwear.  Flush skin and hair with running water (and soap if available).  Seek medical attention in event of irritation.	
Inhalation	<ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>	
Ingestion	<ul> <li>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>	

#### Most important symptoms and effects, both acute and delayed

See Section 11

#### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

#### **SECTION 5 Fire-fighting measures**

#### **Extinguishing media**

- ► Foam.
- ► Dry chemical powder.
- ► BCF (where regulations permit).
- Carbon dioxide.
- Water spray or fog Large fires only.

## Special hazards arising from the substrate or mixture

Fire	Incompatibility
------	-----------------

Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may

#### Special protective equipment and precautions for fire-fighters

Special protective equipment and precautions for fire-fighters		
Fire Fighting	<ul> <li>Alert Fire Department and tell them location and nature of hazard.</li> <li>May be violently or explosively reactive.</li> <li>Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>Consider evacuation (or protect in place).</li> <li>Fight fire from a safe distance, with adequate cover.</li> <li>If safe, switch off electrical equipment until vapour fire hazard removed.</li> <li>Use water delivered as a fine spray to control the fire and cool adjacent area.</li> <li>Avoid spraying water onto liquid pools.</li> <li>Do notapproach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> </ul>	
Fire/Explosion Hazard	<ul> <li>Liquid and vapour are highly flammable.</li> <li>Severe fire hazard when exposed to heat, flame and/or oxidisers.</li> <li>Vapour may travel a considerable distance to source of ignition.</li> <li>Heating may cause expansion or decomposition leading to violent rupture of containers.</li> <li>On combustion, may emit toxic fumes of carbon monoxide (CO).</li> <li>May form explosive peroxides</li> <li>Combustion products include:</li> <li>carbon dioxide (CO2)</li> <li>other pyrolysis products typical of burning organic material.</li> </ul>	

Version No: 1.1 Page 4 of 13 Issue Date: 10/19/2023

#### Oatey® Purple Primer and Oatey® Clear Primer

Print Date: 10/19/2023

#### **SECTION 6 Accidental release measures**

## Personal precautions, protective equipment and emergency procedures

See section 8

#### **Environmental precautions**

See section 12

#### Methods and material for containment and cleaning up

methods and material for containment and cleaning up		
Minor Spills	<ul> <li>Remove all ignition sources.</li> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Contain and absorb small quantities with vermiculite or other absorbent material.</li> <li>Wipe up.</li> <li>Collect residues in a flammable waste container.</li> </ul>	
Major Spills	<ul> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Department and tell them location and nature of hazard.</li> <li>May be violently or explosively reactive.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>Consider evacuation (or protect in place).</li> <li>No smoking, naked lights or ignition sources.</li> <li>Increase ventilation.</li> <li>Stop leak if safe to do so.</li> <li>Water spray or fog may be used to disperse /absorb vapour.</li> <li>Contain spill with sand, earth or vermiculite.</li> <li>Use only spark-free shovels and explosion proof equipment.</li> <li>Collect recoverable product into labelled containers for recycling.</li> <li>Absorb remaining product with sand, earth or vermiculite.</li> <li>Collect solid residues and seal in labelled drums for disposal.</li> <li>Wash area and prevent runoff into drains.</li> <li>If contamination of drains or waterways occurs, advise emergency services.</li> </ul>	

Personal Protective Equipment advice is contained in Section 8 of the SDS.

## **SECTION 7 Handling and storage**

Precautions for safe hand	dling
Safe handling	<ul> <li>Containers, even those that have been emptied, may contain explosive vapours.</li> <li>Do NOT cut, drill, grind, weld or perform similar operations on or near containers.</li> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Prevent concentration in hollows and sumps.</li> <li>DO NOT enter confined spaces until atmosphere has been checked.</li> <li>Avoid smoking, naked lights, heat or ignition sources.</li> <li>When handling, DO NOT eat, drink or smoke.</li> <li>Vapour may ignite on pumping or pouring due to static electricity.</li> <li>DO NOT use plastic buckets.</li> <li>Earth and secure metal containers when dispensing or pouring product.</li> <li>Use spark-free tools when handling.</li> <li>Avoid contact with incompatible materials.</li> <li>Keep containers securely sealed.</li> <li>Avoid physical damage to containers.</li> <li>Always wash hands with soap and water after handling.</li> <li>Work clothes should be laundered separately.</li> <li>Use good occupational work practice.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions.</li> </ul>
Other information	<ul> <li>Store in original containers in approved flame-proof area.</li> <li>No smoking, naked lights, heat or ignition sources.</li> <li>DO NOT store in pits, depression, basement or areas where vapours may be trapped.</li> <li>Keep containers securely sealed.</li> <li>Store away from incompatible materials in a cool, dry well ventilated area.</li> </ul>

Version No: **1.1** Page **5** of **13** Issue Date: **10/19/2023** 

#### Oatey® Purple Primer and Oatey® Clear Primer

Print Date: 10/19/2023

- ▶ Protect containers against physical damage and check regularly for leaks.
- Observe manufacturer's storage and handling recommendations contained within this MSDS.
- Tank storage: Tanks must be specifically designed for use with this product. Bulk storage tanks should be diked (bunded). Locate tanks away from heat and other sources of ignition. Cleaning, inspection and maintenance of storage tanks is a specialist operation, which requires the implementation of strict procedures and precautions.
- Keep in a cool place. Electrostatic charges will be generated during pumping. Electrostatic discharge may cause fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment to reduce the risk. The vapors in the head space of the storage vessel may lie in the flammable/explosive range and hence may be flammable.
- For containers, or container linings use mild steel, stainless steel. Examples of suitable materials are: high density polyethylene (HDPE), polypropylene (PP), and Viton (FMK), which have been specifically tested for compatibility with this product.
- ► For container linings, use amine-adduct cured epoxy paint.
- For seals and gaskets use: graphite, PTFE, Viton A, Viton B.
- Unsuitable material: Some synthetic materials may be unsuitable for containers or container linings depending on the material specification and intended use. Examples of materials to avoid are: natural rubber (NR), nitrile rubber (NBR), ethylene propylene rubber (EPDM), polymethyl methacrylate (PMMA), polystyrene, polyvinyl chloride (PVC), polyisobutylene. However, some may be suitable for glove materials.
- Do not cut, drill, grind, weld or perform similar operations on or near containers. Containers, even those that have been emptied, can contain explosive vapors.

#### Conditions for safe storage, including any incompatibilities

#### Suitable container

- Packing as supplied by manufacturer.
- Plastic containers may only be used if approved for flammable liquid.
- Check that containers are clearly labelled and free from leaks.

## Storage incompatibility

#### Methyl ethyl ketone:

- reacts violently with strong oxidisers, aldehydes, nitric acid, perchloric acid, potassium tert-butoxide, oleum
- is incompatible with inorganic acids, aliphatic amines, ammonia, caustics, isocyanates, pyridines, chlorosulfonic aid
- ▶ forms unstable peroxides in storage, or on contact with propanol or hydrogen peroxide
- attacks some plastics
- may generate electrostatic charges, due to low conductivity, on flow or agitation
- Avoid strong bases.
- ▶ Avoid reaction with oxidising agents

#### **SECTION 8 Exposure controls / personal protection**

#### **Control parameters**

#### Occupational Exposure Limits (OEL)

#### INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
US OSHA Permissible Exposure Limits (PELs) Table Z-1	Acetone	Acetone	1000 ppm / 2400 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	Acetone	Acetone	250 ppm / 590 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	cyclohexanone	Cyclohexanone	50 ppm / 200 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	cyclohexanone	Cyclohexanone	25 ppm / 100 mg/m3	Not Available	Not Available	[skin]
US OSHA Permissible Exposure Limits (PELs) Table Z-1	tetrahydrofuran	Tetrahydrofuran	200 ppm / 590 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	tetrahydrofuran	Tetrahydrofuran	200 ppm / 590 mg/m3	735 mg/m3 / 250 ppm	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	methyl ethyl ketone	2-Butanone (Methyl ethyl ketone)	200 ppm / 590 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	methyl ethyl ketone	2-Butanone	200 ppm / 590 mg/m3	885 mg/m3 / 300 ppm	Not Available	Not Available

#### **Exposure controls**

Version No: **1.1** Page **6** of **13** Issue Date: **10/19/2023** 

#### Oatey® Purple Primer and Oatey® Clear Primer

Print Date: 10/19/2023

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard 'physically' away from the worker and ventilation that strategically 'adds' and 'removes' air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use.

Employers may need to use multiple types of controls to prevent employee overexposure.

For flammable liquids and flammable gases, local exhaust ventilation or a process enclosure ventilation system may be required. Ventilation equipment should be explosion-resistant.

Air contaminants generated in the workplace possess varying 'escape' velocities which, in turn, determine the 'capture velocities' of fresh circulating air required to effectively remove the contaminant.

Type of Contaminant:	Air Speed:
solvent, vapours, degreasing etc., evaporating from tank (in still air).	0.25-0.5 m/s (50-100 f/min.)
aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation)	0.5-1 m/s (100-200 f/min.)
direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)	1-2.5 m/s (200-500 f/min.)

## Appropriate engineering controls

Within each range the appropriate value depends on:

Lower end of the range	Upper end of the range
1: Room air currents minimal or favourable to capture	1: Disturbing room air currents
2: Contaminants of low toxicity or of nuisance value only.	2: Contaminants of high toxicity
3: Intermittent, low production.	3: High production, heavy use
4: Large hood or large air mass in motion	4: Small hood-local control only

Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min.) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.

- · Adequate ventilation is typically taken to be that which limits the average concentration to no more than 25% of the LEL within the building, room or enclosure containing the dangerous substance.
- · Ventilation for plant and machinery is normally considered adequate if it limits the average concentration of any dangerous substance that might potentially be present to no more than 25% of the LEL. However, an increase up to a maximum 50% LEL can be acceptable where additional safeguards are provided to prevent the formation of a hazardous explosive atmosphere. For example, gas detectors linked to emergency shutdown of the process might be used together with maintaining or increasing the exhaust ventilation on solvent evaporating ovens and gas turbine enclosures.
- Temporary exhaust ventilation systems may be provided for non-routine higher-risk activities, such as cleaning, repair or maintenance in tanks or other confined spaces or in an emergency after a release. The work procedures for such activities should be carefully considered. The atmosphere should be continuously monitored to ensure that ventilation is adequate and the area remains safe. Where workers will enter the space, the ventilation should ensure that the concentration of the dangerous substance does not exceed 10% of the LEL (irrespective of the provision of suitable breathing apparatus)

Individual protection measures, such as personal protective equipment

Eye and face protection









## Safety glasses with side shields. Chemical googles. [AS/NZS 133

- ► Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59].

#### Skin protection

See Hand protection below

 Version No: 1.1
 Page 7 of 13
 Issue Date: 10/19/2023

 Print Date: 10/19/2023
 Print Date: 10/19/2023

#### Oatey® Purple Primer and Oatey® Clear Primer

▶ Wear chemical protective gloves, e.g. PVC. Hands/feet protection Wear safety footwear or safety gumboots, e.g. Rubber **Body protection** See Other protection below Overalls. ▶ PVC Apron. ▶ PVC protective suit may be required if exposure severe. Eyewash unit. ▶ Ensure there is ready access to a safety shower. Some plastic personal protective equipment (PPE) (e.g. gloves, aprons, overshoes) are not recommended as they may produce static electricity. Other protection For large scale or continuous use wear tight-weave non-static clothing (no metallic fasteners, cuffs or pockets). ▶ Non sparking safety or conductive footwear should be considered. Conductive footwear describes a boot or shoe with a sole made from a conductive compound chemically bound to the bottom components, for permanent control to electrically ground the foot an shall dissipate static electricity from the body to reduce the possibility of ignition of volatile compounds. Electrical resistance must range between 0 to 500,000 ohms. Conductive shoes should be stored in lockers close to the room in which they are worn. Personnel who have been issued conductive footwear should not wear them from their place of work to their homes and return.

#### Respiratory protection

Type A Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

#### **SECTION 9 Physical and chemical properties**

#### Information on basic physical and chemical properties

Appearance	Purple or clear transparent liquid		
Physical state	Liquid	Relative density (Water = 1)	0.84 +/- 0.02 @ 20°C
Odour	Solvent	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cps)	<100
Initial boiling point and boiling range (°C)	66	Molecular weight (g/mol)	Not Available
Flash point (°C)	-105	Taste	Not Available
Evaporation rate	5.5-8.0	Explosive properties	Not Available
Flammability	HIGHLY FLAMMABLE.	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure	145 mmHG @ 20°C	Gas group	Not Available
Solubility in water	Partly miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	2.5	VOC g/L	<550

#### **SECTION 10 Stability and reactivity**

Reactivity	See section 7
Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>

 Version No: 1.1
 Page 8 of 13
 Issue Date: 10/19/2023

 Print Date: 10/19/2023
 Print Date: 10/19/2023

#### Oatey® Purple Primer and Oatey® Clear Primer

Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

#### **SECTION 11 Toxicological information**

## Information on toxicological effects

Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract. Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo.
Ingestion	The material has <b>NOT</b> been classified as 'harmful by ingestion'. This is because of the lack of corroborating animal or human evidence.
Skin Contact	Skin contact is not thought to have harmful health effects; the material may still produce health damage following entry through wounds, lesions or abrasions.  Open cuts, abraded or irritated skin should not be exposed to this material  Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects.  Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.
Eye	This material can cause eye irritation and damage in some persons.
Chronic	Repeated exposure may cause skin dryness or cracking.  Suspected of causing cancer. In 2012 USEPA Integrated Risk Information System (IRIS)reviewed a two species inhalation lifetime study on THF conducted by NTP (1998). Male rats developed renal tumors and female mice developed liver tumors while neither the female rats nor the male mice showed similar results. Because the carcinogenic mechanisms could not be identified clearly in either species for either tumor, the EPA determined that the male rat and female mouse findings are relevant to the assessment of carcinogenic potential in humans. Therefore, the IRIS review concludes that these data in aggregate indicate that there is 'suggestive evidence of carcinogenic potential' following exposure to THF by all routes of exposure.

Carcinogenicity

Chemical Name	IARC	NTP	OSHA
Acetone	Not listed	Not listed	Not listed
Cyclohexanone	Group 3 -Not classifiable as to its carcinogenicity to humans	Not listed	Not listed
Tetrahydrofuran	Group 2B - Possibly carcinogenic to humans	Not listed	Not listed
Methyl ethyl ketone	Not listed	Not listed	Not listed

Acute Toxicity	×	Carcinogenicity	~
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	<b>~</b>	STOT - Single Exposure	•
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×

**Legend:** X − Data either not available or does not fill the criteria for classification

✓ – Data available to make classification

## **SECTION 12 Ecological information**

### **Toxicity**

Oatey® Purple Primer and	
Oatey® Clear Primer	

Endpoint	Test Duration (hr)	Species	Value	Source
Not Available	Not Available	Not Available	Not Available	Not Available

Version No: **1.1** Page **9** of **13** Issue Date: **10/19/2023** 

#### Oatey® Purple Primer and Oatey® Clear Primer

Print Date: 10/19/2023

	Endpoint	Test I	Duration (hr)	Species		Va	lue	Sourc
	LC50	96h		Fish	Fish 374		44.6-5000.7mg/L	4
A 4	NOEC(ECx)	12h		Fish	Fish		01mg/L	4
Acetone	EC50	72h		Algae or other	aquatic plants	560	00-10000mg/l	4
	EC50	48h		Crustacea		609	98.4mg/L	5
	EC50	96h		Algae or other aquatic plants		9.8	73-27.684mg/l	4
	Endpoint	Test	Duration (hr)	Species			Value	Source
	EC50	72h		•	Algae or other aquatic plants			4
cyclohexanone	EC50	48h		Crustacea				2
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	LC50	96h		Fish		481-578mg/l	4	
	EC10(ECx)	72h		Algae or other aquatic plants		0.4-7.93mg/l	4	
	Endpoint		Test Duration (h	r)	Species	Value		Source
tetrahydrofuran	LC50	96h		Fish		1970-236	1970-2360mg/l	
	NOEC(ECx)	24h			Fish >=5mg/l			1
	Endpoint	Tes	t Duration (hr)	Species			Value	Source
	EC50	72h		Algae or other aquatic plants			1220mg/l	2
	EC50	48h	ı	Crustace	a		308mg/l	2
methyl ethyl ketone	EC50	96h		Algae or other aquatic plants			>500mg/l	4
	NOEC(ECx)	48h		Crustacea		68mg/l	2	
	LC50	96h		Fish		>324mg/L	4	

DO NOTdischarge into sewer or waterways.

## Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
Acetone	LOW (Half-life = 14 days)	MEDIUM (Half-life = 116.25 days)
cyclohexanone	LOW	LOW
tetrahydrofuran	LOW	LOW
methyl ethyl ketone	LOW (Half-life = 14 days)	LOW (Half-life = 26.75 days)

## **Bioaccumulative potential**

Ingredient	Bioaccumulation
Acetone	LOW (BCF = 0.69)
cyclohexanone	LOW (BCF = 2.45)
tetrahydrofuran	LOW (LogKOW = 0.46)
methyl ethyl ketone	LOW (LogKOW = 0.29)

## Mobility in soil

Ingredient	Mobility
Acetone	HIGH (KOC = 1.981)
cyclohexanone	LOW (KOC = 15.15)
tetrahydrofuran	LOW (KOC = 4.881)
methyl ethyl ketone	MEDIUM (KOC = 3.827)

Version No: **1.1** Page **10** of **13** Issue Date: **10/19/2023** 

#### Oatey® Purple Primer and Oatey® Clear Primer

Print Date: 10/19/2023

#### **SECTION 13 Disposal considerations**

#### Waste treatment methods

Product / Packaging

disposal

- ▶ Containers may still present a chemical hazard/ danger when empty.
- ▶ Return to supplier for reuse/ recycling if possible.

#### Otherwise:

- If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.
- ▶ Where possible retain label warnings and SDS and observe all notices pertaining to the product.
- ▶ DO NOT allow wash water from cleaning or process equipment to enter drains.
- It may be necessary to collect all wash water for treatment before disposal.
- In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- Where in doubt contact the responsible authority.
- Recycle wherever possible.
- Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.
- Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or Incineration in a licensed apparatus (after admixture with suitable combustible material).
- Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

#### **SECTION 14 Transport information**

#### **Labels Required**



**Marine Pollutant** 

NO

Shipping container and transport vehicle placarding and labeling may vary from the below information. Products that are regulated for transport will be packaged and marked as Dangerous Goods in Limited Quantities according to US DOT, IATA and IMDG regulations. In case of reshipment, it is the responsibility of the shipper to determine the appropriate labels and markings in accordance with applicable transport regulations.

#### Land transport (DOT)

14.1. UN number or ID number	1993			
14.2. UN proper shipping name	Flammable liquids, n.c	Flammable liquids, n.o.s. Acetone and Cyclohexanone		
14.3. Transport hazard class(es)	Class Subsidiary Hazard	3 Not Applicable		
14.4. Packing group	II .			
14.5. Environmental hazard	Not Applicable			
14.6. Special precautions	Hazard Label	3		
for user	Special provisions	IB2, T7, TP1, TP8, TP28		

#### Air transport (ICAO-IATA / DGR)

	- <b>/</b>				
14.1. UN number	1993				
14.2. UN proper shipping name	Flammable liquid, n.o.s. * Acetone and Cyclohexanone				
	ICAO/IATA Class	3			
14.3. Transport hazard class(es)	ICAO / IATA Subsidiary Hazard	Not Applicable			
ciass(es)	ERG Code	3H			
14.4. Packing group	II				
14.5. Environmental hazard	Not Applicable				

 Version No: 1.1
 Page 11 of 13
 Issue Date: 10/19/2023

 Print Date: 10/19/2023
 Print Date: 10/19/2023

#### Oatey® Purple Primer and Oatey® Clear Primer

14.6. Special precautions for user	Special provisions	А3
	Cargo Only Packing Instructions	364
	Cargo Only Maximum Qty / Pack	60 L
	Passenger and Cargo Packing Instructions	353
	Passenger and Cargo Maximum Qty / Pack	5 L
	Passenger and Cargo Limited Quantity Packing Instructions	Y341
	Passenger and Cargo Limited Maximum Qty / Pack	1 L

#### Sea transport (IMDG-Code / GGVSee)

14.1. UN number	1993			
14.2. UN proper shipping name	FLAMMABLE LIQUID, N.O.S. Acetone and Cyclohexanone			
14.3. Transport hazard class(es)	IMDG Class IMDG Subsidiary Ha	azard Not Applicable		
14.4. Packing group				
14.5 Environmental hazard	Not Applicable			
44.0.0	EMS Number	F-E, S-E		
14.6. Special precautions for user	Special provisions	274		
	Limited Quantities	1L		

#### **SECTION 15 Regulatory information**

#### Safety, health and environmental regulations / legislation specific for the substance or mixture

#### Acetone is found on the following regulatory lists

US - Massachusetts - Right To Know Listed Chemicals

US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs)

US DOE Temporary Emergency Exposure Limits (TEELs)

US Drug Enforcement Administration (DEA) List I and II Regulated Chemicals

US EPA Integrated Risk Information System (IRIS)

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US TSCA Section 4/12 (b) - Sunset Dates/Status

#### cyclohexanone is found on the following regulatory lists

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic

US - Massachusetts - Right To Know Listed Chemicals

US DOE Temporary Emergency Exposure Limits (TEELs)

US EPA Integrated Risk Information System (IRIS)

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

#### tetrahydrofuran is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 2B: Possibly carcinogenic to humans

US - California Proposition 65 - Carcinogens

US - California Safe Drinking Water and Toxic Enforcement Act of 1986 - Proposition 65 List

US - Massachusetts - Right To Know Listed Chemicals

## methyl ethyl ketone is found on the following regulatory lists

US DOE Temporary Emergency Exposure Limits (TEELs)

US EPA Integrated Risk Information System (IRIS)

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US TSCA Section 4/12 (b) - Sunset Dates/Status

Version No: 1.1 Page 12 of 13 Issue Date: 10/19/2023

#### Oatey® Purple Primer and Oatey® Clear Primer

Print Date: 10/19/2023

US - California Hazardous Air Pollutants Identified as Toxic Air Contaminants

US - Massachusetts - Right To Know Listed Chemicals

US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs)

US DOE Temporary Emergency Exposure Limits (TEELs)

US Drug Enforcement Administration (DEA) List I and II Regulated Chemicals

US EPA Integrated Risk Information System (IRIS)

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

### **Federal Regulations**

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### Section 311/312 hazard categories

	1
Flammable (Gases, Aerosols, Liquids, or Solids)	Yes
Gas under pressure	No
Explosive	No
Self-heating	No
Pyrophoric (Liquid or Solid)	No
Pyrophoric Gas	No
Corrosive to metal	No
Oxidizer (Liquid, Solid or Gas)	No
Organic Peroxide	No
Self-reactive	No
In contact with water emits flammable gas	No
Combustible Dust	No
Carcinogenicity	Yes
Acute toxicity (any route of exposure)	No
Reproductive toxicity	No
Skin Corrosion or Irritation	No
Respiratory or Skin Sensitization	No
Serious eye damage or eye irritation	Yes
Specific target organ toxicity (single or repeated exposure)	Yes
Aspiration Hazard	No
Germ cell mutagenicity	No
Simple Asphyxiant	No
Hazards Not Otherwise Classified	Yes

### US. EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4)

Name	Reportable Quantity in Pounds (lb)	Reportable Quantity in kg
Acetone	5000	2270
cyclohexanone	5000	2270
tetrahydrofuran	1000	454
methyl ethyl ketone	5000	2270
methyl ethyl ketone	5000	2270

### **State Regulations**

#### US. California Proposition 65



MARNING: This product can expose you to chemicals including tetrahydrofuran, which is known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov

### **National Inventory Status**

-	
National Inventory	Status
USA - TSCA	Yes
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.

 Version No: 1.1
 Page 13 of 13
 Issue Date: 10/19/2023

#### Oatey® Purple Primer and Oatey® Clear Primer

Print Date: 10/19/2023

#### **SECTION 16 Other information**

Initial Date 09/28/2023

### Other information

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

#### **Definitions and abbreviations**

PC - TWA: Permissible Concentration-Time Weighted Average

PC - STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit.

IDLH: Immediately Dangerous to Life or Health Concentrations

ES: Exposure Standard
OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index DNEL: Derived No-Effect Level

PNEC: Predicted no-effect concentration
AIIC: Australian Inventory of Industrial Chemicals

DSL: Domestic Substances List NDSL: Non-Domestic Substances List

IECSC: Inventory of Existing Chemical Substance in China

EINECS: European INventory of Existing Commercial chemical Substances

ELINCS: European List of Notified Chemical Substances

NLP: No-Longer Polymers

ENCS: Existing and New Chemical Substances Inventory

KECI: Korea Existing Chemicals Inventory NZIoC: New Zealand Inventory of Chemicals

PICCS: Philippine Inventory of Chemicals and Chemical Substances

TSCA: Toxic Substances Control Act
TCSI: Taiwan Chemical Substance Inventory
INSQ: Inventario Nacional de Sustancias Químicas

NCI: National Chemical Inventory

FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances



## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Floor Absorbent - CN

**SDS Number:** 1006500

Manufacturer:	Oil-Dri Corporation of America 410 North Michigan Avenue Chicago, IL 60611 +1-312-321-1515
TRANSPORTATION EMERGENCY INFORMATION:	Chemtrec +1-800-424-9300 (US and Canada) +1-703-527-3887 (International - Call Collect)

Product Use: Absorbent

Restrictions On Use: Spontaneous combustion can occur when this product is used to high concentrations of chemicals having a high heat of absorption such as olefins, hydrochloric acid, etc.



## 2. HAZARDS IDENTIFICATION

GHS Classification:

Health: Specific Target Organ Toxicity - Single Exposure Category 3

Environmental: Not Hazardous

Physical: Not Hazardous

**GHS Labeling:** 

Pictogram:



### WARNING!

H335 May cause respiratory irritation.

Prevention: P261 Avoid breathing dust

P271 Use only outdoors or in a well-ventilated area.

Response: P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for

breathing.

Storage: Store in a dry area.

Disposal: P501 Dispose of contents/container in accordance with all local and national

regulations.



### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No./ EINECS-No	%
Fullers Earth (Attapulgite- type clay)	8031-18-3	10-100%
Proprietary Ingredient	Proprietary	10-100%

### 4. FIRST AID MEASURES

Inhalation: Move to fresh air. If irritation or other symptoms occurs, get medical attention.

Skin contact: No first aid should be needed.

Eye contact: Immediately flush eyes with cool running water, lifting upper and lower lids. If irritation persists or for foreign body in the eye, get medical attention.

**Ingestion:** If used material is ingested, get medical attention due to possibility of chemical contamination. If large amount of unused material is swallowed, get immediate medical attention.

Most Important symptoms and effects, both acute and delayed: Eye contact may cause mechanical irritation and possible eye injury. May cause mechanical skin and respiratory irritation.

Indication of any immediate medical attention and special treatment needed: No immediate medical attention is required.



### 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Use media that is appropriate for surrounding fire; unused product is not combustible.

Specific Hazards Arising from the Chemical: None for unused product.

Special Protective Equipment and Precautions for Fire-fighters: Firefighters should always wear self-contained breathing apparatus and full protective clothing for fires involving chemicals or in confined spaces.

### 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures: No special equipment is generally required for spill clean-up. For dusty conditions, an approved respiratory may be needed. Refer to Section 8 for additional information.

Environmental Hazards: Report releases as required by local and federal regulations.

Methods and Materials for Containment and Cleaning Up: Sweep up and collect unused material for re-use or disposal. For dusty conditions, an approved respiratory may be needed. Refer to Section 8 for additional information.

### 7. HANDLING AND STORAGE

Precautions for Safe Handling: Avoid breathing dust. Avoid contact with eyes, skin, and clothing. Wash thoroughly with soap and water after use. If clothing becomes dusty, launder before re-use. Use only with adequate ventilation. Minimize the generation and accumulation of dust. Follow good housekeeping practices to keep surfaces, including areas overhead such as piping, drop ceilings, ductwork, etc. free from settled dust. Dry powders can build static electricity charges when subjected to friction of transfer and in mixing operations.

Conditions for Safe Storage, including any Incompatibilities: Store in a dry area. Keep away from turpentine, hydrofluoric acid, vegetable oil, and other unsaturated organic compounds (such as fish oil), as this may generate heat and/or fire.



### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure limit(s)

Chemical Name	Exposure limit(s)
Fullers Earth (Attapulgite-type clay)	15 mg/m3 (total dust) TWA OSHA PEL 5 mg/m3 (respirable dust) TWA OSHA PEL
Proprietary Ingredient	15 mg/m3 (total dust) TWA OSHA PEL 5 mg/m3 (respirable dust) TWA OSHA PEL

Appropriate Engineering Controls: General ventilation is adequate for normal use. If handling produces airborne dust, local exhaust ventilation may be needed.

Individual Protection Measures, such as Personal Protective Equipment:

Eye Protection: Safety glasses or goggles if needed to prevent eye contact.

Skin Protection: None required for normal use.

Respiratory Protection: None required for normal use. For operations where the dust concentration may be excessive, a dust respirator may be used. Follow OSHA regulations in the selection and use of respiratory protection.



## 9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Appearance:	White to tan granules
Odor Threshold:	Not applicable.
Boiling point/range	Not applicable.
Melting point/range	Not available
Relative density	2.3-2.37
Vapor pressure	Not applicable.
Vapor density (air=1)	Not applicable.
Solubility	Partially soluble
pН	Not applicable.
Partition coefficient (n-octanol/water):	Not available
Evaporation Rate (Butyl acetate=1)	Not applicable.
Viscosity:	Not applicable.
Volatile Organic Carbon Compounds (VOC) (g/L)	Not available
Flashpoint:	Not applicable.
Flammable Limits in Air % by Volume:	LEL (Lower):Not applicable. UEL (Upper): Not applicable.
Autoignition temperature:	Not available
Decomposition temperature:	Not available
Flammability (solid, gas):	Not flammable



### 10. STABILITY AND REACTIVITY

Reactivity: Not normally reactive.

Chemical Stability: Stable

Possibility of Hazardous Reactions: Spontaneous combustion can occur when this product is used to high concentrations of chemicals having a high heat of absorption such as olefins, hydrochloric acid, etc.

Conditions to Avoid: None.

Incompatible Materials: Turpentine, hydrofluoric acid, vegetable oil, fish oil, unsaturated

organic compounds.

Hazardous Decomposition Products: None.

### 11. TOXICOLOGICAL INFORMATION

#### Potential Health Effects:

Acute Hazards:

Inhalation: Inhalation of dust may cause irritation to the eyes, nose, throat and respiratory tract.

Skin contact: No known hazard.

Eye contact: Contact may cause mechanical, abrasive irritation with possible injury.

**Ingestion:** No known hazard.

Chronic Effects: Inhalation of excessive concentrations of any dust, including this material, may

lead to lung irritation and/or injury.

Carcinogenicity Listing: None.

Acute Toxicity Values: None.

### 12. ECOLOGICAL INFORMATION

Ecotoxicity: No data available for the product. No adverse effects on the environment are expected.

Persistence and Degradability: Fuller's Earth is non-degradable.

Bioaccumulative Potential: Not bioaccumulative.

Mobility in Soil: No data available

Other Adverse Effects: None currently known.



### 13. DISPOSAL CONSIDERATIONS

Dispose in accordance with local, state and federal environmental Regulations. Unused material is suitable for disposal in sanitary landfill. Used material may be subject to regulation, depending on the nature of the material absorbed. Check with appropriate regulatory authority for used material containing hazardous waste.

### 14. TRANSPORT INFORMATION

US DOT Shipping Description: Not regulated

IATA Shipping Description (Air): Not regulated

Proper Shipping Name: Not regulated

UN Number: Not applicable.

Packing Group: Not applicable.

Labels Required: None.

### 15. REGULATORY INFORMATION

US Regulations

SARA 311/312 Hazard Categories: Chronic Health

SARA 313 This Product Contains the Following Chemicals Subject to Annual Release Reporting Requirements Under the SARA Section 313 (40 CFR 372): None.

SARA 302 Listed Chemicals: None.

CERCLA: This product is not subject to CERCLA release reporting. Many states have more stringent reporting requirements. Report releases as required by local and state regulations.

California Proposition 65: None.

**EPA Toxic Substances Control Act (TSCA):** All of the components of this product are listed on the TSCA Inventory or exempted from TSCA.

**International Regulations:** 

EU REACH: Contact Oil Dri for information on REACH status.

Japan MITI: No data available

AICS: No data available



### **16. OTHER INFORMATION**

Date Prepared: 5/29/2015

Revision Summary: May 29, 2015 - Conversion to Hazcom 2012 classification and labeling and

format.

HMIS Rating: Health 0\* Fire 0 Reactivity 0

0 = Minimal Hazard, 1 = Slight Hazard, 2 = Moderate Hazard, 3 = Serious Hazard, 4 = Severe Hazard

The information contained herein is true and correct to the best of Oil-Dri Coporation of America's knowledge. However, no warranty, expressed or implied, is made. Nothing herein should be interpreted as a recommendation to infringe existing patents or violate any laws or regulations. Final determination of the suitability of the material is the sole responsibility of the user.

### TABLE OF CONTENTS SAFETY DATA SHEET

M48006 - ANSI - EN





### DOWFLAKE ™ XTRA 83-87% CALCIUM CHLORIDE FLAKES

**SDS No.:** M48006 SDS Revision Date: 03-Aug-2016 Rev. Num. 10

## SECTION 1. CHEMICAL PRODUCT AND COMPANY **IDENTIFICATION**

**Company Identification:** Occidental Chemical Corporation

> 5005 LBJ Freeway P.O. Box 809050 Dallas, TX 75380-9050

1-800-752-5151

24 Hour Emergency Telephone

Number:

1-800-733-3665 or 1-972-404-3228 (USA); CANUTEC (Canada): 1-613-996-6666; CHEMTREC (within USA and Canada): 1-800-424-9300; CHEMTREC (outside USA and Canada): +1 703-527-3887; CHEMTREC Contract No: CCN16186

To Request an SDS: MSDS@oxy.com or 1-972-404-3245

**Customer Service:** 1-800-752-5151 or 1-972-404-3700

DOWFLAKE ™ XTRA 83-87% CALCIUM CHLORIDE FLAKES **Product Identifier:** 

Synonyms: Calcium Dichloride, Calcium Chloride, Calcium Chloride Flake, DOWFLAKE

Concrete Acceleration, Ice Melting, Dust Control, Road Base Stabilization **Product Use:** 

**Uses Advised Against:** None identified

DOWFLAKE ™ is a trademark of The Dow Chemical Company. Note:

Additional Information: CONSUMER PRODUCTS: When packaged in quantities of 50 lbs. or less, and

> used in a manner and frequency typical of consumer use, OxyChem considers this product a consumer use product which is regulated by the Consumer Product Safety Commission (CPSC). Because CPSC labeling requirements differ from the

### **DOWFLAKE ™ XTRA 83-87% CALCIUM CHLORIDE FLAKES**

**SDS No.**: M48006 **SDS Revision Date**: 03-Aug-2016

Supersedes Date: 2015-09-June-2016 Rev. Num.10

Occupational Safety and Health Administration (OSHA) GHS requirements for safety data sheets (SDS), slight differences in hazard information between the

product label and SDS may be observed.

### **SECTION 2. HAZARDS IDENTIFICATION**

**OSHA REGULATORY STATUS:** This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

### **EMERGENCY OVERVIEW:**

Color:WhiteAppearance:FlakesOdor:Odorless

Signal Word: WARNING

MAJOR HEALTH HAZARDS: CAUSES SERIOUS EYE IRRITATION. CAUSES SKIN IRRITATION. HARMFUL IF SWALLOWED.

OVVALLOVVLD

PHYSICAL HAZARDS: Heat is generated when mixed with water or aqueous acid solutions.

PRECAUTIONARY STATEMENTS: Avoid contact with eyes. Wash thoroughly after handling.

\_\_\_\_\_

#### **GHS CLASSIFICATION:**

GHS: CONTACT HAZARD - SKIN:	Category 2 - Causes skin irritation
GHS: CONTACT HAZARD - EYE:	Category 2A - Causes serious eye irritation
GHS: ACUTE TOXICITY - ORAL:	Category 4 - Harmful if swallowed

**UNKNOWN ACUTE TOXICITY:** A percentage of this product consists of ingredient(s) of unknown acute toxicity. **Unknown Acute Dermal Toxicity:** 

3% of this product consists of ingredient(s) of unknown acute dermal toxicity.

GHS SYMBOL: Exclamation mark

### **DOWFLAKE ™ XTRA 83-87% CALCIUM CHLORIDE FLAKES**

**SDS No.**: M48006 **SDS Revision Date**: 03-Aug-2016

Supersedes Date: 2015-09-June-2016 Rev. Num.10



GHS SIGNAL WORD: WARNING

#### **GHS HAZARD STATEMENTS:**

#### GHS - Health Hazard Statement(s)

- Causes serious eye irritation
- · Causes skin irritation
- · Harmful if swallowed

### GHS - Precautionary Statement(s) - Prevention

- Wear eye and face protection
- · Wear protective gloves
- · Wash thoroughly after handling
- Do not eat, drink or smoke when using this product

### GHS - Precautionary Statement(s) - Response

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- If eye irritation persists: Get medical advice/attention
- IF ON SKIN: Wash with plenty of water
- · Take off contaminated clothing and wash it before reuse
- If skin irritation occurs: Get medical advice/attention
- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- Rinse mouth
- Specific treatment (see First Aid information on product label and/or Section 4 of the SDS)

### GHS - Precautionary Statement(s) - Storage

• There are no Precautionary-Storage phrases assigned

### GHS - Precautionary Statement(s) - Disposal

• Dispose of contents and container in accordance with applicable local, regional, national, and/or international regulations

### **Additional Hazard Information**

Mixing with water may cause heat to be released

See Section 11: TOXICOLOGICAL INFORMATION

### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Synonyms: Calcium Dichloride, Calcium Chloride, Calcium Chloride Flake, DOWFLAKE

### **DOWFLAKE ™ XTRA 83-87% CALCIUM CHLORIDE FLAKES**

**SDS No.**: M48006 **SDS Revision Date**: 03-Aug-2016

Supersedes Date: 2015-09-June-2016 Rev. Num.10

Component	Percent [%]	CAS Number
Calcium chloride	> 83 - < 87	10043-52-4
Water	> 8 - < 14	7732-18-5
Potassium Chloride	> 2 - < 3	7447-40-7
Sodium Chloride	> 1 - < 2	7647-14-5

**Notes:** Potassium chloride and sodium chloride are impurities from the naturally-occurring source material, brine solution.

### **SECTION 4. FIRST AID MEASURES**

\_\_\_\_\_

**INHALATION:** If inhalation of dust occurs and adverse effects result, remove to uncontaminated area. Call a POISON CENTER or doctor/physician if you feel unwell.

**SKIN CONTACT:** If on skin, wash with plenty of water. If skin irritation occurs: Get medical advice/ attention. Take off contaminated clothing and wash before reuse. SPECIFIC TREATMENT: Wash with lots of water.

**EYE CONTACT:** If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation occurs, get medical advice/attention.

**INGESTION:** If swallowed, rinse mouth. Contact a poison center or doctor/physician if you feel unwell.

### Most Important Symptoms/Effects (Acute and Delayed):

### Acute Symptoms/Effects: Listed below.

**Inhalation (Breathing):** Inhaling dust may cause irritation to upper respiratory tract (nose and throat). Nasal mucosal and oropharyngeal erythema.

**Skin:** Skin Irritation. Direct abrasion of skin from solid, erythema and burn from reaction with water. Prolonged contact and occlusion may cause more severe symptoms. Damage is localized to contact areas.

**Eye:** Eye Irritation. Direct abrasion of cornea from solid, erythema and burn from reaction with water, conjunctival swelling and cornea opacification from hypertonic solution and heat. Corneal eye pain, redness, acute corneal thickening or whitening.

**Ingestion (Swallowing):** Consumption of solids or hypertonic solutions causes nausea, vomiting, and increased thirst.

### **Delayed Symptoms/Effects:**

- Chronic exposures to skin and mucus membranes that cause irritation may cause a chronic dermatitis or mucosal membrane problem

Interaction with Other Chemicals Which Enhance Toxicity: None known.

**Medical Conditions Aggravated by Exposure:** Any skin condition that disrupts the skin, such as abrasions, cuts, psoriasis, fungal infections, etc. Any upper respiratory conditions that compromise mucosa can increase local damage from dust contact. Any eye condition that compromises tear production, conjunctiva, or normal corneal homeostasis.

Protection of First-Aiders: At minimum, treating personnel should utilize PPE sufficient for prevention of bloodborne

### **DOWFLAKE ™ XTRA 83-87% CALCIUM CHLORIDE FLAKES**

**SDS No.**: M48006 **SDS Revision Date**: 03-Aug-2016

Supersedes Date: 2015-09-June-2016 Rev. Num.10

pathogen transmission. If potential for exposure exists refer to Section 8 for specific personal protective equipment.

**Notes to Physician:** Due to irritant properties, resulting from heat created as solid material dissolves in water, swallowing may result in burns/ulceration of mucus membranes. If burn is present, treat as any thermal burn, after decontamination. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

### **SECTION 5. FIRE-FIGHTING MEASURES**

Fire Hazard: This material does not burn.

Extinguishing Media: Use extinguishing agents appropriate for surrounding fire

**Fire Fighting:** Keep unnecessary people away, isolate hazard area and deny entry. This material does not burn. Fight fire for other material that is burning. Water should be applied in large quantities as fine spray. Wear NIOSH approved positive-pressure self-contained breathing apparatus operated in pressure demand mode. Wear protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). Avoid contact with this material during fire fighting operations. If contact is likely, change to full chemical resistant fire fighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location. For protective equipment in post-fire or non-fire clean-up situations, refer to the relevant sections.

Hazardous Combustion Products: Formed under fire conditions: hydrogen chloride gas, calcium oxide

Sensitivity to Mechanical

Impact:

Not sensitive.

Sensitivity to Static Discharge: Not sensitive.

Lower Flammability Level (air): Not applicable

Upper Flammability Level (air): Not applicable

Flash point: Not applicable

Auto-ignition Temperature: Not applicable

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

### **Personal Precautions:**

Isolate area. Keep unnecessary and unprotected personnel from entering the area. Spilled material may cause a slipping hazard on some surfaces. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection. Refer to Section 7, Handling, for additional precautionary measures.

### **DOWFLAKE ™ XTRA 83-87% CALCIUM CHLORIDE FLAKES**

**SDS No.**: M48006 **SDS Revision Date**: 03-Aug-2016

Supersedes Date: 2015-09-June-2016 Rev. Num.10

### Methods and Materials for Containment and Cleaning Up:

Small and large spills: Contain spilled material if possible. Collect in suitable and properly labeled containers. Flush residue with plenty of water. See Section 13, Disposal considerations, for additional information.

#### **Environmental Precautions:**

Prevent large spills from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

### SECTION 7. HANDLING AND STORAGE

### **Precautions for Safe Handling:**

Heat developed during diluting or dissolving is very high. Use cool water when diluting or dissolving (temperature less than 80°F, 27°C). Avoid contact with eyes, skin, and clothing. Do not swallow. Wash thoroughly after handling. See Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION.

#### **Safe Storage Conditions:**

Store in a dry place. Protect from atmospheric moisture. Keep container tightly closed. Keep separated from incompatible substances (see below or Section 10 of the Safety Data Sheet).

#### Incompatibilities/ Materials to Avoid:

Heat is generated when mixed with water or aqueous acids. Spattering and boiling can occur. Avoid contact with: bromide trifluoride, 2-furan percarboxylic acid because calcium chloride is incompatible with those substances. Contact with zinc forms flammable hydrogen gas, which can be explosive. Catalyzes exothermic polymerization of methyl vinyl ether. Attacks metals in the presence of moisture, and may release flammable hydrogen gas. Reaction of bromide impurity with oxidizing materials may generate trace levels of impurities such as bromates

### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Regulatory Exposure Limit(s):** Listed below for the product components that have regulatory occupational exposure limits (OEL's) established.

Component	OSHA Final PEL TWA	OSHA Final PEL STEL	OSHA Final PELCeiling
Particles Not Otherwise Regulated (PNOR) 00-00-001	15 mg/m³ (Total) 5 mg/m³ (Respirable)		

OEL: Occupational Exposure Limit; OSHA: United States Occupational Safety and Health Administration; PEL: Permissible Exposure Limit; TWA: Time Weighted Average; STEL: Short Term Exposure Limit

**NON-REGULATORY EXPOSURE LIMIT(S):** Listed below for the product components that have advisory (non-regulatory) occupational exposure limits (OEL's) established.

- The Non-Regulatory United States Occupational Safety and Health Administration (OSHA) limits, if shown, are the Vacated 1989 PEL's (vacated by 58 FR 35338, June 30, 1993).

### **DOWFLAKE ™ XTRA 83-87% CALCIUM CHLORIDE FLAKES**

**SDS No.**: M48006 **SDS Revision Date**: 03-Aug-2016

Supersedes Date: 2015-09-June-2016 Rev. Num.10

- The American Conference of Governmental Industrial Hygienists (ACGIH) is a voluntary organization of professional industrial hygiene personnel in government or educational institutions in the United States. The ACGIH develops and publishes recommended occupational exposure limits each year called Threshold Limit Values (TLVs) for hundreds of chemicals, physical agents, and biological exposure indices.

#### **Additional Advice:**

1. Ingestion: Use good personal hygiene. Do not consume or store food in the work area. Wash hands before smoking or eating

**ENGINEERING CONTROLS:** Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

#### PERSONAL PROTECTIVE EQUIPMENT:

**Eye Protection:** Wear safety glasses with side-shields. For dusty operations or when handling solutions of the material, wear chemical goggles.

Skin and Body Protection: Wear clean, body-covering clothing.

Hand Protection: Use gloves chemically resistant to this material. If hands are cut or scratched, use gloves chemically resistant to this material even for brief exposures. Examples of preferred glove barrier materials include: Neoprene, Polyvinyl chloride ("PVC" or "vinyl"), Nitrile/butadiene rubber ("nitrile" or "NBR"). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

**Respiratory Protection:** Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. In dusty or misty atmospheres, use an approved particulate respirator. The following should be effective types of air-purifying respirators: High efficiency particulate air (HEPA) N95. A respiratory protection program that meets 29 CFR 1910.134 must be followed whenever workplace conditions warrant use of a respirator.

### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Flakes
Color: White
Odor: Odorless

Odor Threshold [ppm]: No data available.

Molecular Formula: CaCl2

**Decomposition Temperature:** Not applicable

### **DOWFLAKE ™ XTRA 83-87% CALCIUM CHLORIDE FLAKES**

**SDS No.**: M48006 **SDS Revision Date**: 03-Aug-2016

Supersedes Date: 2015-09-June-2016 Rev. Num.10

**Boiling Point/Range:**Freezing Point/Range:
Melting Point/Range:
Not applicable to solids.
772 °C (1,422 °F)

Vapor Pressure: Negligible at ambient temperature

Vapor Density (air=1): Not applicable

Relative Density/Specific Gravity Not applicable to solids

(water=1):

**Bulk Density:** 51 - 61 lb/ft3 **Water Solubility:** Readily soluble

pH: Not applicable to solids

Volatility: Not applicable
Evaporation Rate (ether=1): Not applicable
Partition Coefficient No data available

(n-octanol/water):

Flash point:

Flammability (solid, gas):

Lower Flammability Level (air):

Upper Flammability Level (air):

Auto-ignition Temperature:

Viscosity:

Not applicable

Not applicable

Not applicable

Not applicable

Hygroscopic: Yes

### SECTION 10. STABILITY AND REACTIVITY

**Reactivity:** Hygroscopic. Liberates large amounts of heat when dissolving in water or aqueous acids.

Chemical Stability: Stable at normal temperatures and pressures.

Possibility of Hazardous Reactions: Avoid moisture.

Conditions to Avoid: (e.g., static discharge, shock, or vibration) -. None known.

**Incompatibilities/ Materials to Avoid:** Heat is generated when mixed with water or aqueous acids. Spattering and boiling can occur. Avoid contact with: bromide trifluoride, 2-furan percarboxylic acid because calcium chloride is incompatible with those substances. Contact with zinc forms flammable hydrogen gas, which can be explosive. Catalyzes exothermic polymerization of methyl vinyl ether. Attacks metals in the presence of moisture, and may release flammable hydrogen gas. Reaction of bromide impurity with oxidizing materials may generate trace levels of impurities such as bromates

Hazardous Decomposition Products: Formed under fire conditions: hydrogen chloride gas, calcium oxide

Hazardous Polymerization: Will not occur.

### SECTION 11. TOXICOLOGICAL INFORMATION

### **DOWFLAKE ™ XTRA 83-87% CALCIUM CHLORIDE FLAKES**

**SDS No.**: M48006 **SDS Revision Date**: 03-Aug-2016

Supersedes Date: 2015-09-June-2016 Rev. Num.10

**TOXICITY DATA:** 

PRODUCT TOXICITY DATA: DOWFLAKE ™ XTRA 83-87% CALCIUM CHLORIDE FLAKES

LD50 Oral:	LD50 Dermal:	LC50 Inhalation:
1126 mg/kg - Oral Acute Toxicity	2637 mg/kg - Dermal Acute Toxicity	No data is available
Estimate (ATE)	Estimate (ATE)	

#### **COMPONENT TOXICITY DATA:**

Note: The component toxicity data is populated by the LOLI database and may differ from the product toxicity data given.

### **POTENTIAL HEALTH EFFECTS:**

**Eye contact:** For solid: May cause slight eye irritation, mechanical injury only. Dust formation

should be avoided, as dust can cause severe eye irritation with corneal injury.

**Skin contact:** Brief contact is essentially nonirritating to skin. Prolonged contact may cause skin

irritation, even a burn. Not classified as corrosive to the skin according to DOT guidelines. May cause more severe response if skin is damp, abraded (scratched

or cut), or covered by clothing, gloves, or footwear.

**Inhalation:** Dust may cause irritation to upper respiratory tract (nose and throat).

**Ingestion:** Low toxicity if swallowed. Small amounts swallowed incidentally as a result of

normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause local mucosal damage to esophagus and stomach.

Swallowing may result in gastrointestinal irritation or ulceration.

**Chronic Effects:** Chronic exposures to calcium chloride that cause irritation may cause a chronic

dermatitis or mucosal membrane problem. For the minor component(s):

POTASSIUM CHLORIDE: In animals, effects have been reported on the following organs after ingestion: Gastrointestinal tract, heart, and kidney. Dose levels producing these effects were many times higher than any dose levels expected from exposure due to use. SODIUM CHLORIDE: Medical experience with sodium chloride has shown a strong association between elevated blood pressure

and prolonged dietary overuse. Related effects could occur in the kidneys.

#### SIGNS AND SYMPTOMS OF EXPOSURE:

Solution and or solids may be visible on the skin and or eyes. Localized redness, warmth, and irritation consistent with mechanism of injury: abrasion, burn, hypertonic solution.

**Inhalation (Breathing):** Inhaling dust may cause irritation to upper respiratory tract (nose and throat). Nasal mucosal and oropharyngeal erythema.

**Skin:** Skin Irritation. Direct abrasion of skin from solid, erythema and burn from reaction with water. Prolonged contact and occlusion may cause more severe symptoms. Damage is localized to contact areas.

Eye: Eye Irritation. Direct abrasion of cornea from solid, erythema and burn from reaction with water, conjunctival

### **DOWFLAKE ™ XTRA 83-87% CALCIUM CHLORIDE FLAKES**

**SDS No.**: M48006 **SDS Revision Date**: 03-Aug-2016

Supersedes Date: 2015-09-June-2016 Rev. Num.10

swelling and cornea opacification from hypertonic solution and heat. Corneal eye pain, redness, acute corneal thickening or whitening.

Ingestion (Swallowing): Consumption of solids or hypertonic solutions causes nausea, vomiting, and increased

thirst.

Interaction with Other Chemicals Which Enhance Toxicity: None known.

### **GHS HEALTH HAZARDS:**

GHS: ACUTE TOXICITY - ORAL: Category 4 - Harmful if swallowed.

GHS: CONTACT HAZARD - EYE: Category 2A - Causes serious eye irritation

GHS: CONTACT HAZARD - Category 2 - Causes skin irritation.

SKIN:

Skin Absorbent / Dermal Route? No.

#### **MUTAGENIC DATA:**

Not classified as a mutagen per GHS criteria. The data presented are for the following material: Calcium chloride (CaCl2) - In vitro genetic toxicity studies were negative. The data presented are for the following material: Potassium chloride - In vitro genetic toxicity studies were positive. However, the relevance of this to humans is unknown. For the minor component(s): Sodium chloride - In vitro genetic toxicity studies were predominantly negative.

#### **DEVELOPMENTAL TOXICITY:**

Not classified as a developmental or reproductive toxin per GHS criteria. For the major component(s): Did not cause birth defects or any other fetal effects in laboratory animals.

### **SECTION 12. ECOLOGICAL INFORMATION**

#### **ECOTOXICITY DATA:**

Component	Freshwater Fish	Invertebrate Toxicity:	Algae Toxicity:	Other Toxicity:
Calcium chloride	- LC50, bluegill (Lepomis macrochirus): 8350 - 10650 mg/l	- LC50, water flea Daphnia magna: 759 - 3005 mg/l	- No data available	- No data available
Potassium Chloride	mykiss), 96 h: 4,236 mg/l	- EC50, water flea Daphnia magna, 24 h, immobilization: 590 mg/l - LC50, water flea Ceriodaphnia dubia, 96 h: 3,470 mg/l	- No data available	- No data available
Sodium Chloride	- LC50, fathead	- LC50, water flea	- IC50, OECD 209	- IC50, OECD 209

### **DOWFLAKE ™ XTRA 83-87% CALCIUM CHLORIDE FLAKES**

**SDS No.**: M48006 **SDS Revision Date**: 03-Aug-2016

Supersedes Date: 2015-09-June-2016 Rev. Num.10

minnow (Pimephales	Daphnia magna:	Test; activated	Test; activated
promelas): 10,610	4,571 mg/l	sludge, respiration	sludge, respiration
mg/l		inhibition: > 1,000	inhibition: > 1,000
		mg/l	mg/l

### **Aquatic Toxicity:**

Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested)

### **Invertebrate Toxicity:**

Calcium Chloride: LC50, water flea Daphnia magna: 759 - 3,005 mg/l

Potassium Chloride: EC50, water flea Daphnia magna, 24 h, immobilization: 590 mg/l

LC50, water flea Ceriodaphnia dubia, 96 h: 3,470 mg/l

Sodium Chloride: LC50, water flea Daphnia magna: 4,571 mg/l

#### FATE AND TRANSPORT:

**BIODEGRADATION:** This material is inorganic and not subject to biodegradation.

**PERSISTENCE:** Calcium chloride is believed not to persist in the environment because it is readily dissociated into calcium and chloride ions in water. Calcium chloride released into the environment is thus likely to be distributed into water in the form of calcium and chloride ions. Calcium ions may remain in soil by binding to soil particulate or by forming stable salts with other ions. Chloride ions are mobile and eventually drain into surface water. Both ions originally exist in nature, and their concentrations in surface water will depend on various factors, such as geological parameters, weathering, and human activities.

**BIOCONCENTRATION:** No bioconcentration is expected because of the relatively high water solubility. Potential for mobility in soil is very high (Koc between 0 and 50). Partitioning from water to n-octanol is not applicable.

**BIOACCUMULATIVE POTENTIAL:** Calcium chloride and its dissociated forms (calcium and chloride ions) are ubiquitous in the environment. Calcium and chloride ions can also be found as constituents in organisms. Considering its dissociation properties, calcium chloride is not expected to accumulate in living organisms.

**MOBILITY IN SOIL:** Calcium chloride is not expected to be absorbed in soil due to its dissociation properties and high water solubility. It is expected to dissociate into calcium and chloride free ions or it may form stable inorganic or organic salts with other counter ions, leading to different fates between calcium and chloride ions in soil and water components. Calcium ions may bind to soil particulate or may form stable inorganic salts with sulfate and carbonate ions. The chloride ion is mobile in soil and eventually drains into surface water because it is readily dissolved in water.

### **SECTION 13. DISPOSAL CONSIDERATIONS**

#### Waste from material:

Reuse or reprocess, if possible. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Report spills if applicable. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. AS YOUR SUPPLIER, WE HAVE NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE

### **DOWFLAKE ™ XTRA 83-87% CALCIUM CHLORIDE FLAKES**

**SDS No.**: M48006 **SDS Revision Date**: 03-Aug-2016

Supersedes Date: 2015-09-June-2016 Rev. Num.10

PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN SDS SECTION: Composition Information. FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: Landfill and waste water treatment system.

### **Container Management:**

Dispose of container in accordance with applicable local, regional, national, and/or international regulations. Container rinsate must be disposed of in compliance with applicable regulations.

### **SECTION 14. TRANSPORT INFORMATION**

**LAND TRANSPORT** 

U.S. DOT 49 CFR 172.101:

Status: Not Regulated.

**CANADIAN TRANSPORTATION OF DANGEROUS GOODS:** 

Status: Not Regulated.

MARITIME TRANSPORT (IMO / IMDG) Not regulated

Status - IMO / IMDG: Not Regulated

### **SECTION 15. REGULATORY INFORMATION**

#### **U.S. REGULATIONS**

### **OSHA REGULATORY STATUS:**

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

### CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4):

Not regulated.

### SARA EHS Chemical (40 CFR 355.30)

Not regulated

#### EPCRA SECTIONS 311/312 HAZARD CATEGORIES (40 CFR 370.10):

Acute Health Hazard

### **EPCRA SECTION 313 (40 CFR 372.65):**

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute

### **DOWFLAKE ™ XTRA 83-87% CALCIUM CHLORIDE FLAKES**

**SDS No.**: M48006 **SDS Revision Date**: 03-Aug-2016

Supersedes Date: 2015-09-June-2016 Rev. Num.10

#### OSHA PROCESS SAFETY (PSM) (29 CFR 1910.119):

Not regulated

#### **NATIONAL INVENTORY STATUS**

U.S. INVENTORY STATUS: Toxic Substance Control Act (TSCA): All components are listed or exempt.

**TSCA 12(b):** This product is not subject to export notification.

Canadian Chemical Inventory: All components of this product are listed on either the DSL or the NDSL.

Component	DSL	NDSL
Calcium chloride	Listed	Not Listed
10043-52-4		
Potassium Chloride	Listed	Not Listed
7447-40-7		
Sodium Chloride	Listed	Not Listed
7647-14-5		

### STATE REGULATIONS

### California Proposition 65:

This product is not listed, but it may contain impurities/trace elements known to the State of California to cause cancer or reproductive toxicity as listed under Proposition 65 State Drinking Water and Toxic Enforcement Act. WARNING: This product (when used in aqueous formulations with a chemical oxidizer such as ozone) may react to form calcium bromate, a chemical known to the State of California to cause cancer.

Component	Proposition 65 Cancer WARNING:		Proposition 65 CRT List - Female	Right to Know Hazardous	Hazardous	New Jersey Special Health Hazards Substance List
Calcium chloride 10043-52-4	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Potassium Chloride 7447-40-7	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Sodium Chloride 7647-14-5	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

Component	Environmental	, ,	to Know Special Hazardous	to Know	Rhode Island Right to Know Hazardous Substance List
Calcium chloride 10043-52-4	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Potassium Chloride 7447-40-7	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Sodium Chloride 7647-14-5	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

### **CANADIAN REGULATIONS**

• This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and

### **DOWFLAKE ™ XTRA 83-87% CALCIUM CHLORIDE FLAKES**

**SDS No.**: M48006 **SDS Revision Date**: 03-Aug-2016

Supersedes Date: 2015-09-June-2016 Rev. Num.10

the SDS contains all the information required by the Controlled Products Regulations

Component	Canadian Chemical Inventory:	NDSL:	WHMIS - Classifications of Substances:
Calcium chloride	Listed		D2B
Potassium Chloride	Listed		Uncontrolled product according to WHMIS classification criteria
Sodium Chloride	Listed		Uncontrolled product according to WHMIS classification criteria

### **SECTION 16. OTHER INFORMATION**

\_\_\_\_\_

Prepared by: OxyChem Corporate HESS - Product Stewardship

Rev. Date: 03-Aug-2016

#### Disclaimer:

We recommend that you use this product in a manner consistent with the listed use. If your intended use is not consistent with the stated use, please contact your sales or technical service representative.

#### **Reason for Revision:**

Revised GHS Information: SEE SECTION 2
Format change to sections: 12 AND 15

Removed NFPA rating from format: SEE SECTION 16

#### IMPORTANT:

The information presented herein, while not guaranteed, was prepared by technical personnel and is true and accurate to the best of our knowledge. NO WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, OR WARRANTY OR GUARANTY OF ANY OTHER KIND, EXPRESSED OR IMPLIED, IS MADE REGARDING PERFORMANCE, SAFETY, SUITABILITY, STABILITY OR OTHERWISE. This information is not intended to be all-inclusive as to the manner and conditions of use, handling, storage, disposal and other factors that may involve other or additional legal, environmental, safety or performance considerations, and Occidental Chemical Corporation assumes no liability whatsoever for the use of or reliance upon this information. While our technical personnel will be happy to respond to questions, safe handling and use of the product remains the responsibility of the customer. No suggestions for use are intended as, and nothing herein shall be construed as, a recommendation to infringe any existing patents or to violate any Federal, State, local or foreign laws

OSHA Standard 29 CFR 1910.1200 requires that information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, safety data sheets, training and access to written records. We request that you, and it is your legal duty to, make all information in this Safety Data Sheet available to your employees

#### **End of Safety Data Sheet**

<b>ASHLAND</b>	Page: 1
SAFETY DATA SHEET	Revision Date: 05/23/2015
	Print Date: 6/11/2015
	SDS Number: R0200299
PARTS Master® DEX/MERC AUTOMATIC TRANSMISSION FLUID	Version: 1.0
PM5353	

29 CFR 1910.1200 (OSHA HazCom 2012)

### **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

**Product identifier** 

Trade name : PARTS Master® DEX/MERC

**AUTOMATIC TRANSMISSION FLUID** 

### Recommended use of the chemical and restrictions on use

Details of the supplier of the safety data	Emergency telephone number
sheet	1-800-ASHLAND (1-800-274-5263)
Ashland	
P.O. Box 2219	Regulatory Information Number
Columbus, OH 43216	1-800-325-3751
United States of America	
	Product Information
	614-790-3333
EHS Customer Requests@ashland.com	

#### **SECTION 2. HAZARDS IDENTIFICATION**

### **GHS Classification**

This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).

### **GHS Label element**

This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).

### Other hazards

None known.

### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

Chemical nature : Defatter

### **Hazardous components**

Chemical Name	CAS-No.	Classification	Concentration (%)
HYDROTREATED LIGHT	64742-55-8	Asp. Tox. 1; H304	11.82
PARAFFINIC DISTILLATE		•	

<b>ASHLAND</b>	Page: 2
SAFETY DATA SHEET	Revision Date: 05/23/2015
	Print Date: 6/11/2015
	SDS Number: R0200299
PARTS Master® DEX/MERC AUTOMATIC TRANSMISSION FLUID	Version: 1.0
PM5353	

MINERAL OIL		lot a hazardous ubstance or mixture.	5.00
METHACRYLATE COPOLYMER	E	ye Irrit. 2A; H319	1.66
ALKOXYLATED LONG-CHAIN ALKYL AMINE	S E S A	Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 3; H402 Aquatic Chronic 3;	0.40

### **SECTION 4. FIRST AID MEASURES**

General advice : No hazards which require special first aid measures.

If inhaled : If breathed in, move person into fresh air.

If unconscious place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact : First aid is not normally required. However, it is

recommended that exposed areas be cleaned by washing

with soap and water.

In case of eye contact : Remove contact lenses.

Protect unharmed eye.

If swallowed : Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Most important symptoms and effects, both acute and

delayed

: Acute aspiration of large amounts of oil-laden material may produce a serious aspiration pneumonia. Patients who aspirate these oils should be followed for the development of long-term sequelae. Repeated aspiration of small quantities of mineral oil can produce chronic inflammation of the lungs

(i.e. lipoid pneumonia) that may progress to pulmonary

<b>ASHLAND</b>	Page: 3
SAFETY DATA SHEET	Revision Date: 05/23/2015
	Print Date: 6/11/2015
	SDS Number: R0200299
PARTS Master® DEX/MERC AUTOMATIC TRANSMISSION FLUID	Version: 1.0
PM5353	

fibrosis. Symptoms are often subtle and radiological changes appear worse than clinical abnormalities. Occasionally, persistent cough, irritation of the upper respiratory tract, shortness of breath with exertion, fever, and bloody sputum occur. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary abnormalities.

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:

stomach or intestinal upset (nausea, vomiting, diarrhea)

irritation (nose, throat, airways)

Notes to physician : No hazards which require special first aid measures.

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Water spray Foam

Carbon dioxide (CO2)

Dry chemical

Specific hazards during

firefighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion

products

: carbon dioxide and carbon monoxide

Hydrocarbons

Specific extinguishing

methods

Product is compatible with standard fire-fighting agents.

Further information : Standard procedure for chemical fires.

Special protective equipment

for firefighters

: In the event of fire, wear self-contained breathing apparatus.

### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures

: Persons not wearing protective equipment should be excluded

from area of spill until clean-up has been completed.

Environmental precautions : Prevent further leakage or spillage if safe to do so.

<b>ASHLAND</b>	Page: 4
SAFETY DATA SHEET	Revision Date: 05/23/2015
	Print Date: 6/11/2015
	SDS Number: R0200299
PARTS Master® DEX/MERC AUTOMATIC TRANSMISSION FLUID	Version: 1.0
PM5353	

Methods and materials for containment and cleaning up

: Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

Other information : Comply with all applicable federal, state, and local regulations.

#### **SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : Smoking, eating and drinking should be prohibited in the

application area.

For personal protection see section 8.

Conditions for safe storage : Electrical installations / working materials must comply with

the technological safety standards.

Materials to avoid : No materials to be especially mentioned.

### **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
HYDROTREATED LIGHT PARAFFINIC DISTILLATE	64742-55-8	REL	5 mg/m3 Mist.	NIOSH/GUID E
		STEL	10 mg/m3 Mist.	NIOSH/GUID E
		PEL	5 mg/m3 Mist.	OSHA_TRA NS
MINERAL OIL		REL	5 mg/m3 Mist.	NIOSH/GUID E
		STEL	10 mg/m3 Mist.	NIOSH/GUID E
		PEL	5 mg/m3 Mist.	OSHA_TRA NS
		TWA	5 mg/m3 Mist.	TN OEL
		TWA	5 mg/m3 Inhalable fraction.	ACGIH

**Engineering measures** 

: General room ventilation should be adequate for normal conditions of use. However, if unusual operating conditions exist, provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

<b>ASHLAND</b>	Page:
SAFETY DATA SHEET	Revision Date: 05/23/201
	Print Date: 6/11/201
	SDS Number: R020029
PARTS Master® DEX/MERC AUTOMATIC TRANSMISSION FLUID	Version: 1.
PM5353	

### Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally

required.

Eye protection : Not required under normal conditions of use. Wear splash-

proof safety goggles if material could be misted or splashed

into eyes.

Skin and body protection : Wear as appropriate:

Safety shoes

Wear resistant gloves (consult your safety equipment

supplier).

Hygiene measures : General industrial hygiene practice.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state : liquid

Colour : red

Odour : hydrocarbon-like

Odour Threshold : No data available

pH : No data available

: No data available

: No data available

Flash point :  $> 390 \, ^{\circ}\text{F} / > 199 \, ^{\circ}\text{C}$ 

Method: Cleveland open cup

Evaporation rate : > 1

Ethyl Ether

Flammability (solid, gas) : No data available

Upper explosion limit : 6 %(V)

GLP: Calculated Explosive Limit

Lower explosion limit : 1 %(V)

GLP: Calculated Explosive Limit

Vapour pressure : 0.0133333 hPa (21.11 °C)

Calculated Vapor Pressure

<b>ASHLAND</b>	Page: 6
SAFETY DATA SHEET	Revision Date: 05/23/2015
	Print Date: 6/11/2015
	SDS Number: R0200299
PARTS Master® DEX/MERC AUTOMATIC TRANSMISSION FLUID	Version: 1.0
PM5353	

Relative vapour density : No data available

Relative density : 7.29 (15.6 °C)

Density : 0.862 g/cm3 (15.56 °C)

Solubility(ies)

Water solubility : No data available

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: No data available

Thermal decomposition : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : ca. 43 mm2/s (40 °C)

Oxidizing properties : No data available

### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous

reactions

: Product will not undergo hazardous polymerization.

Conditions to avoid : excessive heat

Incompatible materials : Strong oxidizing agents

Hazardous decomposition

products

carbon dioxide and carbon monoxide

Hydrocarbons

### **SECTION 11. TOXICOLOGICAL INFORMATION**

Information on likely routes of : Inhalation

exposure

Skin contact

Eye Contact

<b>ASHLAND</b>	Page: 7
SAFETY DATA SHEET	Revision Date: 05/23/2015
	Print Date: 6/11/2015
	SDS Number: R0200299
PARTS Master® DEX/MERC AUTOMATIC TRANSMISSION FLUID	Version: 1.0
PM5353	

#### Ingestion

### **Acute toxicity**

Not classified based on available information.

### **Components:**

ALKOXYLATED LONG-CHAIN ALKYL AMINE:

Acute oral toxicity

Assessment: The component/mixture is classified as acute

oral toxicity, category 4.

#### Skin corrosion/irritation

Not classified based on available information.

**Product:** 

Result: Repeated exposure may cause skin dryness or cracking.

#### Components:

HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

Result: Mildly irritating to skin

MINERAL OIL:

Result: Mildly irritating to skin

#### METHACRYLATE COPOLYMER:

Result: Not irritating to skin

### ALKOXYLATED LONG-CHAIN ALKYL AMINE:

Result: Corrosive to skin

#### Serious eye damage/eye irritation

Not classified based on available information.

**Product:** 

Remarks: Unlikely to cause eye irritation or injury.

### **Components:**

### HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

Result: Mildly irritating to eyes

MINERAL OIL:

Result: Mildly irritating to eyes

#### METHACRYLATE COPOLYMER:

Result: Irritating to eyes

### ALKOXYLATED LONG-CHAIN ALKYL AMINE:

Result: Corrosive to eyes

#### Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

**Product:** 

Assessment: Does not cause skin sensitisation.

<b>ASHLAND</b>	Page: 8
SAFETY DATA SHEET	Revision Date: 05/23/2019
	Print Date: 6/11/201
	SDS Number: R0200299
PARTS Master® DEX/MERC AUTOMATIC TRANSMISSION FLUID	Version: 1.0
PM5353	

### **Components:**

ALKOXYLATED LONG-CHAIN ALKYL AMINE:

Assessment: May cause sensitization by skin contact.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

**Aspiration toxicity** 

Not classified based on available information.

**Product:** 

No aspiration toxicity classification

### Components:

HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

May be fatal if swallowed and enters airways.

#### **Further information**

**Product:** 

Remarks: No data available

Carcinogenicity:

IARC No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

**OSHA**No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

### **SECTION 12. ECOLOGICAL INFORMATION**

### **Ecotoxicity**

ALKOXYLATED LONG-CHAIN ALKYL AMINE:

Ecotoxicology Assessment

Acute aquatic toxicity : Harmful to aquatic life.

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

<b>ASHLAND</b>	Page: 9
SAFETY DATA SHEET	Revision Date: 05/23/2015
	Print Date: 6/11/2015
	SDS Number: R0200299
PARTS Master® DEX/MERC AUTOMATIC TRANSMISSION FLUID	Version: 1.0
PM5353	

### Persistence and degradability

No data available

### **Bioaccumulative potential**

No data available

### Mobility in soil

No data available

#### Other adverse effects

No data available

### **Product:**

Additional ecological

information

: No data available

### **SECTION 13. DISPOSAL CONSIDERATIONS**

### **Disposal methods**

General advice : Dispose of in accordance with all applicable local, state and

federal regulations.

Contaminated packaging : Empty remaining contents.

### **SECTION 14. TRANSPORT INFORMATION**

### International transport regulations

### **REGULATION**

ID NUMBER PROPER S	SHIPPING NAME *HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.
--------------------	--------------------------------	-----------------------	------------------	------------------------------------

### U.S. DOT - ROAD

Not dangerous goods	

### U.S. DOT - RAIL

Not dangerous goods	

### **U.S. DOT - INLAND WATERWAYS**

NL to January and
Not gangerous googs
Het dangerede geede

### TRANSPORT CANADA - ROAD

INAMO ON OAMADA NOAD	TRAITOLORI DARADA ROAD		
Not dangerous g	oods		

### **TRANSPORT CANADA - RAIL**

<b>ASHLAND</b>	Page: 10
SAFETY DATA SHEET	Revision Date: 05/23/2015
	Print Date: 6/11/2015
	SDS Number: R0200299
PARTS Master® DEX/MERC AUTOMATIC TRANSMISSION FLUID	Version: 1.0
PM5353	

Not dangerous goods	

### TRANSPORT CANADA - INLAND WATERWAYS

Not dangerous goods

### **INTERNATIONAL MARITIME DANGEROUS GOODS**

Not dangerous goods

#### INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

Not dangerous goods

### INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

Not dangerous goods

## MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

Not dangerous goods	

### \*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Marine pollutant	no

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

### **SECTION 15. REGULATORY INFORMATION**

SARA 311/312 Hazards : No SARA Hazards

SARA 313 : This material does not contain any chemical components with

Component(s)SARA 313 known CAS numbers that exceed the threshold (De Minimis)

reporting levels established by SARA Title III, Section 313.

Pennsylvania Right To Know

HEAVY PARAFFINIC DISTILLATE 64742-54-7 90.00 -

100.00 %

(DDOTDEATED LIGHT BARAFFINIC 64742 FF 8 10.00 20.00 %

HYDROTREATED LIGHT PARAFFINIC 64742-55-8 10.00 - 20.00 %

DISTILLATE

MINERAL OIL Not Assigned 5.00 - 10.00 %

<b>ASHLAND</b>	Page: 11
SAFETY DATA SHEET	Revision Date: 05/23/2015
	Print Date: 6/11/2015
	SDS Number: R0200299
PARTS Master® DEX/MERC AUTOMATIC TRANSMISSION FLUID	Version: 1.0
PM5353	

AUTOMATIC TRANSMISSION FLUID Not Assigned 1.00 - 5.00 %

**ADDITIVE** 

**New Jersey Right To Know** 

HEAVY PARAFFINIC DISTILLATE 64742-54-7 90.00 -

100.00 % 64742-55-8 10.00 - 20.00 %

DISTILLATE

MINERAL OIL Not Assigned 5.00 - 10.00 %

AUTOMATIC TRANSMISSION FLUID Not Assigned 1.00 - 5.00 %

**ADDITIVE** 

METHACRYLATE COPOLYMER Not Assigned 1.00 - 5.00 %

California Prop 65 Proposition 65 warnings are not required for this product

based on the results of a risk assessment.

The components of this product are reported in the following inventories:

HYDROTREATED LIGHT PARAFFINIC

TSCA : On TSCA Inventory

DSL : All components of this product are on the Canadian DSL.

AUSTR : On the inventory, or in compliance with the inventory

ENCS : On the inventory, or in compliance with the inventory

KECL : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

### Inventories

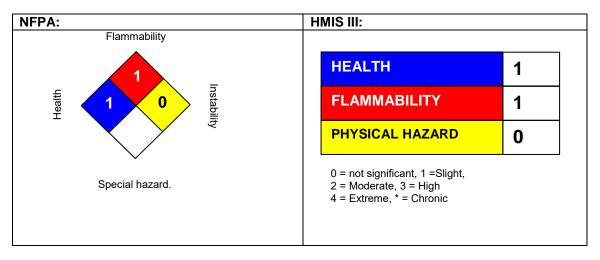
AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

<b>ASHLAND</b>	Page: 12
SAFETY DATA SHEET	Revision Date: 05/23/2015
	Print Date: 6/11/2015
	SDS Number: R0200299
PARTS Master® DEX/MERC AUTOMATIC TRANSMISSION FLUID	Version: 1.0
PM5353	

#### **SECTION 16. OTHER INFORMATION**

#### **Further information**

Revision Date: 05/23/2015



# NFPA Flammable and Combustible Liquids Classification

Combustible Liquid Class IIIB

# Full text of H-Statements referred to under sections 2 and 3.

H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H402	Harmful to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

Sources of key data used to compile the Safety Data Sheet
Ashland internal data including own and sponsored test reports
The UNECE administers regional agreements implementing harmonised classification for labelling

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

ACGIH: American Conference of Industrial Hygienists

<b>ASHLAND</b>	Page: 13
SAFETY DATA SHEET	Revision Date: 05/23/2015
	Print Date: 6/11/2015
	SDS Number: R0200299
PARTS Master® DEX/MERC AUTOMATIC TRANSMISSION FLUID	Version: 1.0
PM5353	

BEI: Biological Exposure Index

CAS: Chemical Abstracts Service (Division of the American Chemical Society).

CMR: Carcinogenic, Mutagenic or Toxic for Reproduction

FG: Food grade

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

H-statement : Hazard Statement

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization

ICAO-TI (ICAO): Technical Instructions by the "International Civil Aviation Organization"

IMDG : International Maritime Code for Dangerous Goods

ISO: International Organization for Standardization

logPow: octanol-water partition coefficient

LCxx: Lethal Concentration, for xx percent of test population

LDxx: Lethal Dose, for xx percent of test population. ICxx: Inhibitory Concentration for xx of a substance

Ecxx : Effective Concentration of xx N.O.S.: Not Otherwise Specified

OECD: Organization for Economic Co-operation and Development

OEL : Occupational Exposure Limit
P-Statement : Precautionary Statement
PBT : Persistent , Bioaccumulative and Toxic

PPE : Personal Protective Equipment

STEL: Short-term exposure limit STOT: Specific Target Organ Toxicity

TLV: Threshold Limit Value TWA: Time-weighted average

vPvB: Very Persistent and Very Bioaccumulative

WEL: Workplace Exposure Level

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

DOT: Department of Transportation

FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act HMIRC: Hazardous Materials Information Review Commission

HMIS: Hazardous Materials Identification System NFPA: National Fire Protection Association

NIOSH: National Institute for Occupational Safety and Health OSHA: Occupational Safety and Health Administration

PMRA: Health Canada Pest Management Regulatory Agency

RTK : Right to Know

WHMIS: Workplace Hazardous Materials Information System



# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture

Product name : PEAK Long Life 50/50 Prediluted Antifreeze & Coolant

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Antifreeze & Coolant

#### 1.3. Details of the supplier of the safety data sheet

Old World Industries, LLC 4065 Commercial Ave. Northbrook, IL 60062 - USA T (847) 559-2000 www.oldworldind.com

#### 1.4. Emergency telephone number

Emergency number : (800) 424-9300; (703) 527 3887 (International)

Chemtrec

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### **GHS-US** classification

Acute Tox. 4 (Oral) H302 Repr. 2 H361 STOT RE 2 H373

Full text of H statements : see section 16

#### 2.2. Label elements

#### **GHS-US** labelling

Hazard pictograms (GHS-US)





GHS GHS

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H302 - Harmful if swallowed

H361 - Suspected of damaging fertility or the unborn child

H373 - May cause damage to organs (kidneys) through prolonged or repeated exposure (oral)

Precautionary statements (GHS-US) : P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P260 - Do not breathe mist, spray, vapors

P264 - Wash affected areas thoroughly after handling P270 - Do not eat, drink or smoke when using this product P280 - Wear personal protective equipment as required

P301+P310 - If swallowed: Immediately call doctor/physician or poison center. Rinse Mouth

P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing

P308+P313 - If exposed or concerned: Get medical advice/attention

P405 - Store locked up

P501 - Dispose of contents/container, in a safe manner, to appropriate waste disposal facility,

in accordance with local/regional/national/international regulations

#### 2.3. Other hazards

No additional information available

# 2.4. Unknown acute toxicity (GHS US)

No data available

02/16/2016 EN (English) Page 1

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Name	Product identifier	% by wt	GHS-US classification
ethylene glycol	(CAS No) 107-21-1	<= 50	Acute Tox. 4 (Oral), H302
water	(CAS No) 7732-18-5	< 50	Not classified
diethylene glycol	(CAS No) 111-46-6	< 3	Acute Tox. 4 (Oral), H302 STOT RE 2, H373
potassium 2-ethylhexanoate	(CAS No) 3164-85-0	< 2	Repr. 2, H361
denatonium benzoate	(CAS No) 3734-33-6	30 - 50 ppm	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335

# **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical

advice (show the label where possible).

First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for

breathing is difficult, remove victim to fresh all and keep at rest in a position comortable breathing. If not breathing, give artificial respiration. Allow the victim to rest. If breathing is difficult, give oxygen. Seek immediate medical advice.

First-aid measures after skin contact : Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation

occurs: Rinse immediately with plenty of water (for at least 15 minutes). Get medical advice/attention. Remove contaminated clothing.

First-aid measures after eye contact : Rinse immediately with plenty of water for 15 minutes, lifting lower and upper lids. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Rinse

immediately with plenty of water. Get medical advice/attention.

First-aid measures after ingestion : Obtain emergency medical attention. Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell. If medical advice is delayed, and if the person has swallowed a moderate volume of material (a few ounces), then give three to four ounces of

has swallowed a moderate volume of material (a few ounces), then give three to four ounces of hard liquor, such as whiskey. For children, give proportionally less liquor, according to weight.

# 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Causes damage to organs (kidneys) Oral. Suspected of damaging fertility or the unborn child.

Symptoms/injuries after skin contact : Causes skin irritation.
Symptoms/injuries after eye contact : Causes serious eye damage.

Symptoms/injuries after ingestion : Swallowing a small quantity of this material will result in serious health hazard. The lethal dose

in humans is estimated to be 100 mL (3 oz).

# 4.3. Indication of any immediate medical attention and special treatment needed

A more effective intravenous antidote for physician uses is 4-methylpyrazaole, a potent inhibitor of alcohol dehydrogenases, which effectively blocks the formation of toxic metabolites of ethylene glycol. It has been used to decrease the metabolic consequences of ethylene glycol poisoning before metabolic acidosis coma, seizures, and renal failure have occured.

# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : Fine water spray. Alcohol-resistant foam. Foam. Carbon dioxide. Dry chemical powder. Sand.

Water fog.

Unsuitable extinguishing media : Do not use a heavy water stream. May spread fire.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard : During a fire, smoke may contain the original material in addition to combustion products of

varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide.

Reactivity : No dangerous reactions known under normal conditions of use.

#### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Special protective equipment for fire fighters : Wear positive pressure self-contained breathing apparatus (SCBA). Protective fire fighting clothing (includes fire-fighting helmet, coat, pants, boots and gloves).

02/16/2016 EN (English) 2/9

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Refer to section 8.2.

Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect

spillage. Store away from other materials.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Provide good ventilation in process area to prevent formation

of vapor

Hygiene measures : Do not eat, drink or smoke when using this product. Wash affected areas thoroughly after

handling.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Heat sources.

Keep container closed when not in use. Product may become solid at temperatures below -37 °C (-34 °F). Do not store near food, foodstuffs, drugs or potable water supplies. Do not cut, drill,

weld, use a blowtorch on, etc. containers even when empty.

Incompatible products : Keep away from strong acids, strong bases and oxidizing agents.

Incompatible materials : Sources of ignition.

#### 7.3. Specific end use(s)

No additional information available

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

ethylene glycol (107-21-1)		
ACGIH	ACGIH TWA (mg/m³)	10 mg/m³
ACGIH	Remark (ACGIH)	Upper Respiratory Tract (URT) & Eye irritant
OSHA	Not applicable	

#### 8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure. Gloves. Safety glasses.



Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses.

Respiratory protection : If exposed to levels above exposure limits wear appropriate respiratory protection.

Other information : Do not eat, drink or smoke during use.

#### **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state : Liquid

02/16/2016 EN (English) 3/9

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Color : Slightly yellow to green

Odor : Mild

Odor threshold : No data available

pH : 8
Relative evaporation rate (butylacetate=1) : Nil

Freezing point : -37 °C (-34 °F) Boiling point : 107 °C (224 °F)

Flash point : 116 °C (241 °F) [100% Ethylene Glycol] ASTM D56 Auto-ignition temperature : 400 °C (752 °F) [100% Ethylene Glycol] Literature

Decomposition temperature : No data available Flammability (solid, gas) : No data available Vapor pressure : < 0.1 @ 20 °C Relative vapor density at 20 °C : No data available

Specific Gravity : 1.07

Density 1.07 kg/l (8.9 lbs/gal) Solubility : Water: Complete Log Pow : No data available Log Kow : No data available Viscosity, kinematic : No data available Viscosity, dynamic : No data available Explosive properties : Not applicable. Oxidizing properties : Not applicable. Explosive limits : Not applicable.

9.2. Other information

VOC content : 0.00 %

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

#### 10.2. Chemical stability

Stable.

#### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

#### 10.4. Conditions to avoid

Extremely high or low temperatures. Keep away from any flames or sparking source.

# 10.5. Incompatible materials

Keep away from strong acids, strong bases and oxidizing agents.

#### 10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide. Fume. Aldehydes. Ethers. alcohols.

# SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed.

denatonium benzoate (3734-33-6)		
LD50 oral rat	584.00 mg/kg (Rat; Literature study)	
LD50 dermal rabbit	> 2,000.00 mg/kg (Rabbit; Literature study)	
ATE US (oral)	584.00 mg/kg bodyweight	
ethylene glycol (107-21-1)		
LD50 oral rat	> 5,000.00 mg/kg (Rat; Literature study)	
ATE US (oral)	500.00 mg/kg bodyweight	

02/16/2016 EN (English) 4/9

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

diethylene glycol (111-46-6)	
LD50 dermal rabbit	11,890.00 mg/kg (Rabbit)
ATE US (oral)	500.00 mg/kg bodyweight
ATE US (dermal)	11,890.00 mg/kg bodyweight

Skin corrosion/irritation : Not classified

pH: 8.00

Serious eye damage/irritation : Not classified

pH: 8.00

Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

Reproductive toxicity : Suspected of damaging fertility or the unborn child.

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated

exposure)

: May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).

May cause damage to organs through prolonged or repeated exposure

Aspiration hazard : Not classified

Potential adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met. Harmful if swallowed.

Symptoms/injuries after skin contact : Causes skin irritation.

Symptoms/injuries after eye contact : Causes serious eye damage.

Symptoms/injuries after ingestion : Swallowing a small quantity of this material will result in serious health hazard. The lethal dose

in humans is estimated to be 100 mL (3 oz).

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

denatonium benzoate (3734-33-6)		
LC50 fish 1	> 1,000.00 mg/l (LC50; 96 h; Salmo gairdneri)	
EC50 Daphnia 1	13.00 mg/l (EC50; 48 h; Daphnia magna)	
ethylene glycol (107-21-1)		
EC50 Daphnia 1	> 10,000.00 mg/l (EC50; 24 h)	
LC50 fish 2	40,761.00 mg/l (LC50; 96 h; Salmo gairdneri)	
diethylene glycol (111-46-6)		
LC50 fish 1	> 5,000.00 mg/l (LC50; 24 h)	
EC50 Daphnia 1	> 10,000.00 mg/l (EC50; 24 h)	

#### 12.2. Persistence and degradability

denatonium benzoate (3734-33-6)		
Persistence and degradability	Biodegradability in water: no data available. No (test) data on mobility of the substance available.	
ethylene glycol (107-21-1)		
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil.	
Biochemical oxygen demand (BOD)	0.47 g O₂/g substance	
Chemical oxygen demand (COD)	1.24 g O₂/g substance	
ThOD	1.29 g O₂/g substance	
BOD (% of ThOD)	0.36	

02/16/2016 EN (English) 5/9

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

diethylene glycol (111-46-6)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil. Photolysis in the air.
Biochemical oxygen demand (BOD)	0.02 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	1.51 g O <sub>2</sub> /g substance
ThOD	1.51 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.02

#### 12.3. Bioaccumulative potential

denatonium benzoate (3734-33-6)	
BCF fish 1	1.4 - 3.6 (BCF; BCFBAF v3.00)
Log Pow	1.78 (Estimated value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
ethylene glycol (107-21-1)	
BCF fish 1	10.00 (BCF; 72 h)
BCF other aquatic organisms 1	0.21 - 0.6 (BCF)
BCF other aquatic organisms 2	190.00 (BCF; 24 h)
Log Pow	-1.34 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
diethylene glycol (111-46-6)	
BCF fish 1	100.00 (BCF; Other; 3 days; Leuciscus melanotus; Static system; Fresh water; Experimental value)
Log Pow	-1.98 (Calculated; Other)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

#### 12.4. Mobility in soil

ethylene glycol (107-21-1)		
Surface tension 0.05 N/m (20 °C / 68 °F)		
diethylene glycol (111-46-6)		
Surface tension	0.05 N/m	
Log Koc	Koc,SRC PCKOCWIN v1.66; 1; Calculated value; log Koc; SRC PCKOCWIN v1.66; 0; Calculated value	

#### 12.5. Other adverse effects

Effect on ozone layer : No known effect on the ozone layer

Effect on global warming : No known ecological damage caused by this product.

Other information : Avoid release to the environment.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose of contents/container, in a safe manner, to appropriate waste disposal facility, in

accordance with local/regional/national/international regulations.

Ecology - waste materials : Avoid release to the environment.

# **SECTION 14: Transport information**

#### **Department of Transportation (DOT)**

In accordance with DOT

Transport document description : UN3082 Environmentally hazardous substances, liquid, n.o.s., 9, III

UN-No.(DOT) : UN3082

Proper Shipping Name (DOT) : Environmentally hazardous substances, liquid, n.o.s.

Class (DOT) : 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140

02/16/2016 EN (English) 6/9

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Hazard labels (DOT) : 9 - Class 9 (Miscellaneous dangerous materials)



Packing group (DOT) : III - Minor Danger

DOT Packaging Non Bulk (49 CFR 173.xxx) : 203 DOT Packaging Bulk (49 CFR 173.xxx) : 241

DOT Symbols : G - Identifies PSN requiring a technical name

DOT Packaging Exceptions (49 CFR 173.xxx) : 155
DOT Quantity Limitations Passenger aircraft/rail : No limit (49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : No limit

CFR 175.75)

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel

Other information : Non Bulk: Not regulated by the US D.O.T. (in quantities under 5,000 lbs in any one inner

package).

#### **TDG**

Refer to current TDG Canada for further Canadian regulations

Transport by sea

Proper Shipping Name (IMDG) : Not regulated by IMDG (in quantities under 5,000 lbs in any one inner package)

Air transport

Proper Shipping Name (IATA) : Not regulated by IATA (in quantities under 5,000 lbs in any one inner package)

# **SECTION 15: Regulatory information**

# 15.1. US Federal regulations

PEAK Long Life 50/50 Prediluted Antifreeze &	Coolant		
EPA TSCA Regulatory Flag		Toxic Substances Control Act (TSCA): The intentional ingredients of this product are listed	
denatonium benzoate (3734-33-6)			
Listed on the United States TSCA (Toxic Substan	ices Control Act) i	nventory	
ethylene glycol (107-21-1)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313			
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA		
CERCLA RQ	5000 lb(s)		
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard Ethylene glycol is subject to Tier I and/or Tier II annual inventory reporting		
SARA Section 313 - Emission Reporting	Ethylene glycol is subject to Form R Reporting requirements.		
diethylene glycol (111-46-6)			

Listed on the United States TSCA (Toxic Substances Control Act) inventory

# potassium 2-ethylhexanoate (3164-85-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 15.2. International regulations

# CANADA

02/16/2016 EN (English) 7/9

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### **WHMIS Classification**



Class D Division 2 Subdivision A - Very toxic material causing other toxic effects

#### **EU-Regulations**

No additional information available

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

No additional information available

#### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

#### **National regulations**

#### PEAK Long Life 50/50 Prediluted Antifreeze & Coolant

DSL (Canada): The intentional ingredients of this product are listed ECL (South Korea): The intentional ingredients of this product are listed EINECS (Europe): The intentional ingredients of this product are listed ENCS (Japan): The intentional ingredients of this product are listed

#### 15.3. US State regulations

California Proposition 65 - This product contains, or may contain, substance(s) known to the state of California to cause cancer, developmental toxicity and/or reproductive toxicity

ethylene glycol (107-21-1)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)
No	Yes	No	No	

# ethylene glycol (107-21-1)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

#### diethylene glycol (111-46-6)

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

# **SECTION 16: Other information**

#### Full text of H-statements:

At OT IT Claterrolle.	
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H361	Suspected of damaging fertility or the unborn child
H373	May cause damage to organs through prolonged or repeated
	exposure

02/16/2016 EN (English) 8/9

# Safety Data Sheet

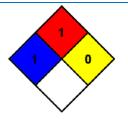
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

NFPA health hazard : 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA fire hazard : 1 - Must be preheated before ignition can occur.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions,

and are not reactive with water.



**HMIS III Rating** 

Personal Protection

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids,

solids and semi solids having a flash point above 200 °F (93 °C). (Class IIIB)

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT

react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

B - Safety glasses, Gloves

SDS GHS US (GHS HazCom 2012) OWI

Old World Industries, LLC makes no warranty, representation or guarantee as to the accuracy, sufficiency or completeness of the material set forth herein. It is the user's responsibility to determine the safety, toxicity and suitability of his own use, handling and disposal of this product. Since actual use by others is beyond our control, no warranty, expressed or implied, is made by Old World Industries, LLC as to the effects of such use, the results to be obtained or the safety and toxicity of this product, nor does Old World Industries, LLC assume liability arising out of the use by others of this product referred to herein. The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

02/16/2016 EN (English) 9/9

# POWER SERVICE PRODUCTS, INC. SAFETY DATA SHEET



# **SECTION 1 - IDENTIFICATION**

PRODUCT NAME: DIESEL FUEL SUPPLEMENT +CETANE BOOST

Unless otherwise noted, all sections of this SDS apply to each of the following products and part numbers.

#### **PART NUMBERS:**

1:400 Treatment Ratio	1016-06, 1016-09, 1025-06, 1025-09, 1025-12, 1080-06, 11016-06, 11016-09, 11025-06, 11025-12, 11080-06
1:1,000 Treatment Ratio	1000, 1128-04, 1060-01
1:1,500 Treatment Ratio	1050-02, 1055-01, 1260-01

# **COMPANY IDENTIFICATION:**

Power Service Products, Inc.

P.O. Box 1089

Weatherford, TX 76086

Email: psp@powerservice.com

Phone: 800-643-9089 or 817-599-9486

Fax: 817-599-4893

Emergency Phone Number: Within USA 1-800-424-9300. Outside USA 001-703-527-3887 (Call Collect).

**RECOMMENDED USES:** Diesel fuel additive

# **SECTION 2 – HAZARD(S) IDENTIFICATION**

# **CLASSIFICATION UNDER 29 CFR 1910.1200(d)**

# (NC=product does not meet classification criteria)

	1:400	1:1000	1:1500
	Treatment	Treatment	Treatment
	Ratio	Ratio	Ratio
Health Hazard Criteria	Category	Category	Category
Acute Toxicity, Oral:	NC	NC	NC
Acute Toxicity, Dermal:	NC	NC	NC
Acute Toxicity, Inhalation, Vapors:	3	3	3
Skin Corrosion/Irritation:	2	2	2
Serious Eye Damage/Eye Irritation:	2	2	2

Revised: November 3, 2016 Supersedes: September 28, 2015

	1:400 Treatment Ratio	1:1000 Treatment Ratio	1:1500 Treatment Ratio
Health Hazard Criteria	Category	Category	Category
Respiratory Sensitization:	NC	NC	NC
Skin Sensitization:	NC	NC	NC
Germ Cell Mutagenicity:	NC	NC	NC
Carcinogenicity:	2	2	2
Reproductive Toxicity:	NC	NC	NC
Specific Target Organ Toxicity, Single Exposure:	3	3	3
Specific Target Organ Toxicity, Repeated or Prolonged Exposure:	NC	NC	NC
Aspiration Hazard:	1	1	1

	1:400	1:1000	1:1500
	Treatment	Treatment	Treatment
	Ratio	Ratio	Ratio
Physical Properties Criteria	Category	Category	Category
Explosives:	NC	NC	NC
Flammable Gases:	NC	NC	NC
Flammable Aerosols:	NC	NC	NC
Oxidizing Gases:	NC	NC	NC
Gases Under Pressure:	NC	NC	NC
Flammable Liquids:	3	3	3
Flammable Solids:	NC	NC	NC
Self-Reactive Chemicals:	NC	NC	NC
Pyrophoric Liquids:	NC	NC	NC
Pyrophoric Solids:	NC	NC	NC
Self-Heating Chemicals:	NC	NC	NC
Chemicals Which, in Contact with Water,	NC	NC	NC
Emit Flammable Gases:			
Oxidizing Liquids:	NC	NC	NC
Oxidizing Solids:	NC	NC	NC
Organic Peroxides:	NC	NC	NC
Corrosive to Metals:	NC	NC	NC

# LABEL SIGNAL WORD, HAZARD STATEMENTS, SYMBOLS AND PRECAUTIONARY STATEMENTS UNDER 29 CFR 1910.1200(f):

# Please see the Note regarding product labeling in Section 16.

	1:400 Treatment Ratio	1:1000 Treatment Ratio	1:1500 Treatment Ratio
Signal Word	Danger	Danger	Danger

Revised: November 3, 2016 Supersedes: September 28, 2015

**Hazard Statement(s):** Flammable liquid and vapor. Toxic if inhaled. May be fatal if swallowed and enters airways. Harmful if swallowed. Causes skin and serious eye irritation. May cause respiratory irritation and drowsiness or dizziness.

**Symbols:** The following symbols are for all treatment ratios.









**Precautionary Statement(s):** Keep away from sparks and open flames. No smoking. Keep container tightly closed. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing vapors. Use only outdoors or in a well-ventilated area. Wash hands thoroughly after handling. Wear protective gloves and eye protection. Store locked up and in cool, well ventilated place. KEEP OUT OF REACH OF CHILDREN.

Hazards Not Otherwise Classified: None

# **SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS**

The specific chemical identity and exact concentration percentage has been withheld as a Trade Secret. Specific chemical information will be made available to health professionals in accordance with 29 CFR 1910.1200.

# **INGREDIENTS CLASSIFIED AS HEALTH HAZARDS**

TREATMENT RATIO 1:400			
Chemical Name	Common Name/Synonyms	CAS Number	Concentration (%)
Petroleum Distillates	Trade secret	Trade secret	25 - 75
Hydroxy alkoxylate	Trade secret	Trade secret	5 - 15
Alkyl Nitrates	Trade secret	Trade secret	2 – 8
Aromatic hydrocarbons	Trade secret	Trade secret	0.5 - 2
Naphthalene	Not available	91-20-3	0.05 - 0.2

TREATMENT RATIO 1:1000			
Chemical Name	Common Name/Synonyms	CAS Number	Concentration (%)
Petroleum Distillates	Trade secret	Trade secret	35 - 85
Alkyl Nitrates	Trade secret	Trade secret	5 - 15
Aromatic Hydrocarbons	Trade secret	Trade secret	1 - 5
Hexan-1-ol, 2-ethyl	Trade secret	Trade secret	1 - 5
Naphthalene	Not available	91-20-3	0.1 - 0.5

Revised: November 3, 2016 Supersedes: September 28, 2015

TREATMENT RATIO 1:1500			
Chemical Name	Common Name/Synonyms	CAS Number	Concentration (%)
Petroleum Distillates	Trade secret	Trade secret	25 - 75
Alkyl Nitrates	Trade secret	Trade secret	8 - 22
Aromatic Hydrocarbons	Trade secret	Trade secret	2 - 8
Hexan-1-ol, 2-ethyl	Trade secret	Trade secret	1 – 5
Naphthalene	Not available	91-20-3	0.1 – 0.5

#### **SECTION 4 - FIRST AID MEASURES**

As a precaution, exposure to liquids, vapors, mists and fumes should be minimized.

**EYE CONTACT:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice.

**SKIN CONTACT:** Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs get medical advice/attention.

**INHALATION:** Remove person to fresh air and keep comfortable for breathing. Call a doctor.

INGESTION: If swallowed, IMMEDIATELY call a doctor. Do NOT induce vomiting.

# **SECTION 5 - FIRE FIGHTING MEASURES**

**EXTINGUISHING MEDIA:** Use water fog, alcohol-resistant foam, dry chemical or carbon dioxide (CO<sub>2</sub>) to extinguish flames.

**SPECIFIC HAZARDS:** Vapors are heavier than air and may travel along the ground to a distant ignition source and flash back. See Section 10 for Stability and Reactivity. **NOTE:** EMPTY CONTAINERS CONTAIN COMBUSTIBLE VAPORS THAT CAN CAUSE FLASH FIRES OR EXPLOSIONS. CONTAINERS ARE SINGLE-TRIP CONTAINERS AND SHOULD NOT BE USED FOR ANY REASON AFTER BEING EMPTIED. DO NOT USE CUTTING TORCH EQUIPMENT OR ANY OTHER FLAME OR OTHER SOURCES OF IGNITION ON ANY EMPTY CONTAINER.

**PROTECTIVE EQUIPMENT AND PRECAUTIONS**: Use standard protective equipment including self-contained breathing apparatus (SCBA).

# **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES: Avoid contact with spilled material. Warn or evacuate occupants in surrounding and downwind areas. Eliminate

Revised: November 3, 2016 Supersedes: September 28, 2015

all sources of ignition in the vicinity of the spill or released vapor. See Section 2 for Hazards Identification. See Section 4 for First Aid Measures. See Section 5 for Fire Fighting Information. See Section 8 for Personal Protective Equipment.

**SPILL CONTAINMENT AND CLEAN-UP:** Eliminate potential sources of ignition. Stop leak if it can be done without risk. Dike and contain spill. Do not touch or walk through spilled material. Prevent entry into waterways, sewer, basements or confined areas. Remove with vacuum trucks or pump to storage/salvage vessels. Soak up residue with an absorbent such as clay, sand or other suitable material and dispose of properly. A vapor suppressing foam may be used to reduce vapors. Local, state and federal laws and/or regulations may apply to releases and disposal of this material, as well as those materials and items employed in the clean-up releases. The user/responder will need to determine which local, state and federal laws and/or regulations are applicable. The National Response Center can be reached at 1-800-424-8802.

# **SECTION 7 - HANDLING AND STORAGE**

**PRECAUTIONS FOR SAFE HANDLING**: Avoid contact with eyes and skin. Use only with adequate ventilation. Use proper bonding and/or grounding procedures. Prevent small spills and leakage to avoid slip hazard. Material can accumulate static charges which may cause an electrical spark (ignition source). Keep away from ignition sources such as heat, sparks, and flames. No smoking.

**CONDITIONS FOR SAFE STORAGE:** DO NOT USE OR STORE near heat, sparks, or flame. USE AND STORE ONLY IN A WELL-VENTILATED AREA. Handle containers with care. Keep container tightly closed when not in use. Store locked up.

#### STORAGE TEMPERATURE:

Treatme	ent Ratio	Part Numbers:	Storage Temperature:
1:400 Ratio	Treatment	1016-06, 1016-09, 1025-06, 1025-12, 1080-06, 11016-06, 11016-09, 11025-06, 11025-12, 11041-04, 11080-06	-20°F to 104°F (-29°C to 40°C)
1:1,000 Ratio	Treatment	1000, 1128-04, 1060-01	0°F to 104°F (-18°C to 40°C)
1:1,500 Ratio	Treatment	1050-02, 1055-01, 1260-01	10°F to 104°F (-12°C to 40°C)

**EMPTY CONTAINER WARNING:** EMPTY CONTAINERS MAY CONTAIN COMBUSTIBLE VAPORS AND CAN BE DANGEROUS. SEE SECTION 5 FOR FIRE AND EXPLOSION HAZARD DATA.

# **SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

#### **EXPOSURE GUIDELINES:**

		OSHA	ACGIH			NIOSH		
	CAS#	PEL	TLV	STEL	REL	STEL	IDLH	Note
Ethylbenzene	100-41-4	100 ppm	20 ppm	not est.	100 ppm	125 ppm	800 ppm (LEL)	n/a

Revised: November 3, 2016 Supersedes: September 28, 2015

		OSHA	ACGIH			NIOSH		
	CAS#	PEL	TLV	STEL	REL	STEL	IDLH	Note
Naphthalene	91-20-3	10 ppm	10 ppm	not est.	10 ppm	15 ppm	250 ppm	skin
Petroleum Distillates	n/a	500 ppm	not est.	n/a				
Cumene	98-82-8	50 ppm	50 ppm	not est.	50 ppm	not est.	900 ppm (LEL)	Skin
Toluene	108-88-3	100 ppm	20 ppm	not est.	100 ppm	150 ppm	500 ppm	Skin
Hydroxy Alkoxylate	Proprietary	50 ppm	20 ppm	not est.	5 ppm	not est.	not est.	skin

**ENGINEERING CONTROLS:** The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Local exhaust ventilation is recommended to control exposure.

# PERSONAL PROTECTIVE EQUIPMENT (PPE):

**Eyes and Face:** Eye protection such as safety glasses or chemical goggles is recommended if contact is likely.

**Skin:** Protective chemical/oil resistant gloves are recommended. Wear additional protective clothing as appropriate.

**Respiratory:** Wear a NIOSH/MSHA approved respirator as necessary.

**Specific Hygiene Measures:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Practice good housekeeping.

**NOTE:** These precautions are for room temperature handling.

# **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

	1:400 Treatment	1:1000 Treatment	1:1500 Treatment
	Ratio	Ratio	Ratio
Appearance	Liquid, brown	Liquid, brown	Liquid, brown
Odor	Aromatic solvent	Aromatic solvent	Aromatic solvent
Odor Threshold	Not available	Not available	Not available
рН	Not applicable	Not applicable	Not applicable
Melting point/Freezing point	Not available	Not available	Not available
Initial Boiling Point and Boiling	224 505 (405 200)	262 40F (420 00C)	264 70F (427 60C)
Range	221.5°F (105.3°C)	262.4°F (128.0°C)	261.7°F (127.6°C)
Flash Point	101°F (38.3°C)	111°F (43.3°C)	107°F (41.7°C)
Evaporation Rate	Not available	Not available	Not available
Flammability	Not available	Not available	Not available
Upper / lower Flammability or	Not available	Not available	Not available
Explosive Limits	INUL avallable	inot available	INUL available
Vapor Pressure	Not available	Not available	Not available

Revised: November 3, 2016 Supersedes: September 28, 2015

	1:400 Treatment Ratio	1:1000 Treatment Ratio	1:1500 Treatment Ratio
Vapor Density	Not available	Not available	Not available
Relative Density/Specific Gravity	0.9238	0.9281	0.9317
Solubility	Not available	Not available	Not available
Partition Coefficient; n-octanol / water	Not available	Not available	Not available
Auto-ignition Temperature	Not available	Not available	Not available
Decomposition temperature	Not available	Not available	Not available
Viscosity	Not available	Not available	Not available
Pour Point	-55°F (-48°C)	-30°F (-34°C)	-15°F (-26°C)

#### **SECTION 10 - STABILITY AND REACTIVITY**

**REACTIVITY:** see Incompatible Materials below

**CHEMICAL STABILITY:** This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

POSSIBILITY OF HAZARDOUS REACTION: Hazardous polymerization will not occur.

**CONDITIONS TO AVOID:** Flames, high energy ignition sources, and elevated temperatures.

**INCOMPATIBLE MATERIALS:** May react with strong oxidizing agents, such as; chlorates, nitrates, peroxides, nitrogen oxides, sulfur oxides, etc.; alkalis; nitric acid; sulfuric acid; aluminum; brass; copper; reducing agents.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon oxides, products of incomplete combustion.

# **SECTION 11 - TOXICOLOGICAL INFORMATION**

#### LIKELY ROUTES OF EXPOSURE

	INGESTION	INHALATION	SKIN CONTACT	EYE CONTACT	SKIN ABSORPTION
1:400 Treatment Ratio		Х	Х	Х	Х
1:1000 Treatment Ratio		Х	Х	Х	Х
1:1500 Treatment Ratio		Х	Х	Х	X

#### SYMPTOMS RELATED TO PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS:

Breathing of high vapor concentrations may cause dizziness, light-headedness, headache, nausea and loss of coordination. Continued inhalation may result in unconsciousness. The vapor or fumes from this material may cause respiratory irritation. Breathing this material at elevated concentrations causes central nervous system effects. Central nervous system effects may include headache, dizziness, nausea, vomiting, weakness, loss of coordination, blurred vision, drowsiness, confusion or disorientation. At

Revised: November 3, 2016 Supersedes: September 28, 2015

extreme exposures, central nervous system effects may include respiratory depression, tremors, or convulsions, loss of consciousness, coma or death.

**DELAYED AND IMMEDIATE EFFECTS AND CHRONIC EFFECTS FROM SHORT- AND LONG-TERM EXPOSURE:** Repeated skin exposure to a component of this product may cause irritation, even a burn; may cause a more severe response on covered skin, such as under clothing or gloves. Inhalation exposure to a component of this product has caused fetotoxicity in the presence of maternal toxicity in animals.

#### NUMERICAL MEASURES OF TOXICITY

Note: the information provided below are estimates; testing of the product is not available.

Treatmen	t Ratio	Acute Oral Toxicity (ATE <sub>mix</sub> estimate)	Acute Dermal Toxicity (ATE <sub>mix</sub> estimate)	Acute Inhalation (ATE <sub>mix</sub> estimate)
1:400 Ratio	Treatment	Does not meet criteria	Does not meet criteria	7.12 (vapors)
1:1,000 Ratio	Treatment	Does not meet criteria	Does not meet criteria	8.53 (vapors)
1:1,500 Ratio	Treatment	Does not meet criteria	Does not meet criteria	7.68 (vapors)

**SENSITIZATION**: No information available.

**MUTAGENICITY**: No information available.

**CARCINOGENICITY LISTINGS – the following chemicals are listed as indicated:** 

Chemical	List
Cumene	IARC, NTP
Ethylbenzene	IARC
Naphthalene	IARC, NTP

**REPODUCTIVE TOXICITY**: No information available.

**TERATOGENICITY/EMBRYOTOXICITY:** Hydroxy Alkoxylate has caused fetotoxicity with maternal toxicity. This product contains a component of a complex mixture (Xylenes (1330-20-7)) that has been shown to cause teratogenicity and/or embryotoxicity.

**SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)**: Respiratory tract irritation, drowsiness/dizziness.

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE): No information available

**ASPIRATION HAZARD**: Aspiration hazard identified.

Revised: November 3, 2016 Supersedes: September 28, 2015

#### **SECTION 12 - ECOLOGICAL INFORMATION**

**ECOTOXICITY:** This material is expected to be toxic to aquatic organisms.

**PERSISTENCE AND DEGRADABILITY**: No information available.

**BIOACCUMULATIVE POTENTIAL:** No information available.

**MOBILITY IN SOIL**: No information available.

OTHER ADVERSE EFFECTS: No information available.

# **SECTION 13 - DISPOSAL CONSIDERATIONS**

**RCRA Information:** Disposal of unused product may be subject to RCRA hazardous waste regulations (40 CFR Part 261). Disposal of the used product may also be regulated as hazardous waste due to resulting mixture characteristics, mixture components or product use. Such changes to the product may result in different and/or additional hazardous waste codes. Potential RCRA waste code based on the product as shipped: D001 IGNITABILITY

State or local laws may impose additional regulatory requirements regarding disposal. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

**EMPTY CONTAINER WARNING:** EMPTY CONTAINERS MAY CONTAIN COMBUSTIBLE VAPORS AND CAN BE DANGEROUS. SEE SECTION 5 FOR FIRE AND EXPLOSION HAZARD DATA. Dispose or recycle empty containers appropriately per local, state and federal regulations.

# **SECTION 14 - TRANSPORTATION INFORMATION**

# The following part numbers are not regulated by DOT:

1:400 Treatment Ratio	1016-06, 1016-09, 1025-06, 1025-09, 1025-12, 1080-06, 11016-06, 11016-09, 11025-06, 11025-12, 1080-06
1:1,000 Treatment Ratio	1128-04
1:1,500 Treatment Ratio	1050-02, 1055-01

# The following part numbers are regulated by DOT:

1:1,000 Treatment Ratio	1060-01, 1000
1:1,500 Treatment Ratio	1260-01

PROPER SHIPPING NAME: Combustible Liquid, N.O.S., (Petroleum Distillates) Marine Pollutant

(2-Ethylhexyl Nitrate & 1,3,5-trimethylbenzene) RQ (Xylene, Naphthalene)

HAZARD CLASS: Combustible Liquid

Revised: November 3, 2016 Supersedes: September 28, 2015

I.D. NUMBER: NA 1993 PACKING GROUP: III

PLACARDING: Combustible Liquid

**MARINE POLLUTANT: Yes** 

PRODUCT RQ: 100 lbs. (45.45 kg) - Xylene, Naphthalene

# **SECTION 15 - REGULATORY INFORMATION**

# §14(a) Consumer Product Safety Act General Certificate of Conformity

Power Service Products, Inc. certifies that this product meets the statutory and regulatory requirements of the US Consumer Products Safety Act, the Federal Hazardous Substances Act, and the Poison Prevention Packaging Act of 1970, as applicable. The Power Service products are manufactured in the United States in Weatherford, Texas, unless otherwise indicated on the product label. The product manufacture lot code is stamped on the product container. This Certification is based upon a reasonable testing program conducted by Power Service Products, Inc. which includes a quality control program incorporating, as necessary, confirmation of compliance by component suppliers. Third-party testing is not required to certify compliance. Further details may be obtained by contacting the Power Service Products, Inc. EHS Manager at 1-800-643-9089.

Contents of this SDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

#### **TSCA STATUS:**

All chemical substances found in this product comply with the Toxic Substances Control Act inventory reporting requirements.

#### **EPA SARA TITLE III CHEMICAL LISTINGS:**

Section 302 Extremely Hazardous Substances: None

#### Sections 311/312 Hazard Class:

Acute Health Effects: Yes Sudden Release of Pressure Hazard: No

Chronic Health Effects: Yes Reactivity Hazard: No

Fire Hazard: Yes

# NFPA (NATIONAL FIRE PROTECTION ASSOCIATION) RATING:

HEALTH: 2 FIRE: 2

REACTIVITY: 0

# Section 313:

Specific chemical information is being withheld as a Trade Secret. The following chemicals subject to the reporting requirements of EPCRA Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (40 CFR Part 372) may be present in this product at a concentration that does not exceed the specified upper weight percentage.

Revised: November 3, 2016 Supersedes: September 28, 2015

Treatment Ratio	CAS Number	<b>Chemical Name</b>	Max %
1:400 Treatment Ratio	100-41-4	Ethylbenzene	1.5
	Not available	Glycol Ether Category	8.0
	91-20-3	Naphthalene	
1:1000 Treatment Ratio	100-41-4	Ethylbenzene	0.2
	Not available	Glycol Ether Category	0.4
	91-20-3	Naphthalene	0.3
1:1,500 Treatment Ratio	100-41-4	Ethylbenzene	0.2
	Not available	Glycol Ether Category	
	91-20-3	Naphthalene	0.5

State or local laws may impose additional regulatory requirements for components of this material. It is the responsibility solely of the Employer to maintain compliance with State and Local reporting.

This product contains a chemical known to the state of California to cause cancer and/or birth defects or other reproductive harm: ethylbenzene, toluene, cumene, naphthalene.

#### SECTION 16 – OTHER INFORMATION

DATE OF PREPARATION / REVISION: November 3, 2016

NOTE regarding product labeling: The OSHA Hazard Communication Standard applies to hazardous chemicals known to be present in the workplace. However, the labeling and Safety Data Sheet requirements do not apply to consumer products when they are used in the workplace for the purposes intended by the manufacturer and the use results in a duration and frequency of exposure which is not greater than the range of exposures that could reasonably be experienced by consumers when used for the intended purpose. Power Service Products intends for product packaged in 1 gallon or smaller containers to be used by consumers and has labeled those containers as required under the Consumer Product Safety Commission regulations. Power Service Products intends for product packaged in containers larger than 1 gallon to be used in the workplace and has labeled those products as required by the OSHA Hazard Communication Standard. The Consumer Product Safety Commission and OSHA Hazard Communication Standard labeling requirements are different and variations between the consumer and industrial labels may occur. It is the employer's responsibility to purchase the appropriate product for use in the workplace.

The information contained herein is offered in good faith and is believed to be accurate based on the data available to us as of the date of SDS preparation. The information in this document applies to this specific product as supplied. It may not be appropriate for this product if the product is used in combination with other materials. The information in this document is not intended to constitute product performance information. Some of the information presented and conclusions drawn herein are from sources other than direct test data on the product. No statement shall be construed as an endorsement of any product or process. The recommended industrial hygiene and safe handling procedures are believed to be valid in the context of the intended use as described in product labeling. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate. You are urged to obtain material safety data sheets for all products you buy, process, use or distribute, and are encouraged to advise those who may come in contact with such products of the information

Revised: November 3, 2016 Supersedes: September 28, 2015

contained therein. Regulatory requirements are subject to change and may differ between locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. No warranty or guarantee is expressed or implied with respect to this product, the accuracy and sufficiency of the data or recommendations herein, or the results to be obtained from the use of this product. IN NO EVENT SHALL POWER SERVICE PRODUCTS, INC. BE LIABLE FOR ANY LOSS, CLAIM, DAMAGE OR LIABILITY OF ANY KIND, WHICH MAY ARISE FROM OR IN CONNECTION WITH THE INFORMATION CONTAINED IN THIS DOCUMENT OR FROM THE USE, HANDLING OR STORAGE OF THE PRODUCT BY THE BUYER/USER, WHETHER DIRECT, INDIRECT, OR CONSEQUENTIAL, OR FOR ANY CLAIM BY ANY THIRD PARTY, BEYOND THE PURCHASE PRICE OR REPLACEMENT OF THE PRODUCT IN CONNECTION WITH WHICH SUCH LOSS, CLAIM, DAMAGE OR LIABILITY AROSE.

THE FOREGOING LIMITATIONS APPLY REGARDLESS OF THE CAUSES OR CIRCUMSTANCES GIVING RISE TO SUCH LOSS, CLAIM, DAMAGE OR LIABILITY, EVEN IF SUCH LOSS, CLAIM, DAMAGE, OR LIABILITY IS BASED ON NEGLIGENCE OR OTHER TORTS OR BREACH OF CONTRACT.

Revised: November 3, 2016 Supersedes: September 28, 2015

According to the Hazardous Products Regulations

# Pennzoil ATF Type F

 Version
 Revision Date:
 SDS Number:
 Print Date: 2016-05-24

 1.6
 2016-05-23
 800001003713
 Date of last issue: 25.04.2016

Date of first issue: 16.12.2008

#### **SECTION 1. IDENTIFICATION**

Product name : Pennzoil ATF Type F

Product code : 001B0854

# Manufacturer or supplier's details

Manufacturer/Supplier : Shell Canada Products

400 - 4th Avenue S.W Calgary AB T2P 0J4

Canada

Telephone : (+1) 8006611600 Telefax : (+1) 4033848345

Emergency telephone num-

ber

: CHEMTREC (24 hr): 1 (703) 527-3887 or 1 (800) 424-9300

(US

CANUTEC (24 hr): (+1) 613-996-6666; Toll Free: 1-888-CAN-

UTEC (226-8832)

#### Recommended use of the chemical and restrictions on use

Recommended use : Transmission oil.

#### **SECTION 2. HAZARDS IDENTIFICATION**

#### **GHS Classification**

Not a hazardous substance or mixture.

# **GHS** label elements

Hazard pictograms : No Hazard Symbol required

Signal word : No signal word

Hazard statements : PHYSICAL HAZARDS:

Not classified as a physical hazard under GHS criteria.

**HEALTH HAZARDS:** 

Not classified as a health hazard under GHS criteria.

**ENVIRONMENTAL HAZARDS:** 

Not classified as an environmental hazard under GHS criteria.

Precautionary statements : **Prevention**:

No precautionary phrases.

Response:

No precautionary phrases.

Storage:

1 / 14 800001003713

According to the Hazardous Products Regulations

# Pennzoil ATF Type F

Revision Date: SDS Number: Print Date: 2016-05-24 Version 1.6 2016-05-23 800001003713 Date of last issue: 25.04.2016 Date of first issue: 16.12.2008

No precautionary phrases.

Disposal:

No precautionary phrases.

#### Other hazards which do not result in classification

Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.

Used oil may contain harmful impurities.

Not classified as flammable but will burn.

#### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

: Pennzoil ATF Type F Substance name

Chemical nature Highly refined mineral oils and additives.

The highly refined mineral oil contains <3% (w/w) DMSO-

extract, according to IP346.

\* contains one or more of the following CAS-numbers: 64742-53-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-65-0, 68037-01-4, 72623-86-0, 72623-87-1, 8042-47-5, 848301-69-

# **Hazardous components**

Chemical name	CAS-No.	Concentration (% w/w)
Interchangeable low viscosity base oil (<20,5 cSt	Not Assigned	0 - 90
@40°C) *		

#### **SECTION 4. FIRST-AID MEASURES**

General advice : Not expected to be a health hazard when used under normal

conditions.

If inhaled : No treatment necessary under normal conditions of use.

If symptoms persist, obtain medical advice.

: Remove contaminated clothing. Flush exposed area with wa-In case of skin contact

ter and follow by washing with soap if available.

If persistent irritation occurs, obtain medical attention.

In case of eye contact Flush eye with copious quantities of water.

If persistent irritation occurs, obtain medical attention.

If swallowed : In general no treatment is necessary unless large quantities

are swallowed, however, get medical advice.

Most important symptoms and effects, both acute and

delayed

Oil acne/folliculitis signs and symptoms may include formation of black pustules and spots on the skin of exposed areas.

Ingestion may result in nausea, vomiting and/or diarrhoea.

Protection of first-aiders : When administering first aid, ensure that you are wearing the

2/14 800001003713 CA

According to the Hazardous Products Regulations

# Pennzoil ATF Type F

Version 1.6

Revision Date: 2016-05-23

SDS Number: 800001003713

Print Date: 2016-05-24 Date of last issue: 25.04.2016 Date of first issue: 16.12.2008

appropriate personal protective equipment according to the

incident, injury and surroundings.

Notes to physician : Treat symptomatically.

#### **SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media

: Foam, water spray or fog. Dry chemical powder, carbon diox-

ide, sand or earth may be used for small fires only.

Unsuitable extinguishing

media

: Do not use water in a jet.

Specific hazards during fire-

fighting

Hazardous combustion products may include:

A complex mixture of airborne solid and liquid particulates and

gases (smoke).

Carbon monoxide may be evolved if incomplete combustion

occurs.

Unidentified organic and inorganic compounds.

Specific extinguishing meth-

ods

Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Special protective equipment

for firefighters

Proper protective equipment including chemical resistant gloves are to be worn; chemical resistant suit is indicated if large contact with spilled product is expected. Self-Contained Breathing Apparatus must be worn when approaching a fire in a confined space. Select fire fighter's clothing approved to

relevant Standards (e.g. Europe: EN469).

# **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emer-

gency procedures

Personal precautions, protec- : Avoid contact with skin and eyes.

Environmental precautions

Use appropriate containment to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.

Local authorities should be advised if significant spillages

cannot be contained.

Methods and materials for containment and cleaning up

Slippery when spilt. Avoid accidents, clean up immediately. Prevent from spreading by making a barrier with sand, earth

or other containment material.

Reclaim liquid directly or in an absorbent.

Soak up residue with an absorbent such as clay, sand or other

suitable material and dispose of properly.

3 / 14 800001003713

According to the Hazardous Products Regulations

# Pennzoil ATF Type F

 Version
 Revision Date:
 SDS Number:
 Print Date: 2016-05-24

 1.6
 2016-05-23
 800001003713
 Date of last issue: 25.04.2016

 Date of first issue: 16.12.2008

Additional advice : For guidance on selection of personal protective equipment

see Chapter 8 of this Safety Data Sheet.

For guidance on disposal of spilled material see Chapter 13 of

this Safety Data Sheet.

#### **SECTION 7. HANDLING AND STORAGE**

General Precautions : Use local exhaust ventilation if there is risk of inhalation of

vapours, mists or aerosols.

Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this

material.

Advice on safe handling : Avoid prolonged or repeated contact with skin.

Avoid inhaling vapour and/or mists.

When handling product in drums, safety footwear should be worn and proper handling equipment should be used.

Properly dispose of any contaminated rags or cleaning mate-

rials in order to prevent fires.

Avoidance of contact : Strong oxidising agents.

Product Transfer : This material has the potential to be a static accumulator.

Proper grounding and bonding procedures should be used

during all bulk transfer operations.

Storage

Other data : Keep container tightly closed and in a cool, well-ventilated

place.

Use properly labeled and closable containers.

Store at ambient temperature.

Packaging material : Suitable material: For containers or container linings, use mild

steel or high density polyethylene.

Unsuitable material: PVC.

Container Advice : Polyethylene containers should not be exposed to high tem-

peratures because of possible risk of distortion.

### **SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**

# Components with workplace control parameters

Components  CAS-No.  Value type (Form of exposure)  Control parameters / Permissible concentration  Basis
---

4 / 14 800001003713 CA

#### According to the Hazardous Products Regulations

# Pennzoil ATF Type F

 Version
 Revision Date:
 SDS Number:
 Print Date: 2016-05-24

 1.6
 2016-05-23
 800001003713
 Date of last issue: 25.04.2016

 Date of first issue: 16.12.2008

Oil mist, mineral	Not Assigned	TWA ((inhal- able frac- tion))	5 mg/m3	US. ACGIH Threshold Limit Values
		TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Inhal- able fraction)	5 mg/m3	ACGIH

#### Biological occupational exposure limits

No biological limit allocated.

# **Monitoring Methods**

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate.

Validated exposure measurement methods should be applied by a competent person and samples analysed by an accredited laboratory.

Examples of sources of recommended exposure measurement methods are given below or contact the supplier. Further national methods may be available.

National Institute of Occupational Safety and Health (NIOSH), USA: Manual of Analytical Methods http://www.cdc.gov/niosh/

Occupational Safety and Health Administration (OSHA), USA: Sampling and Analytical Methods http://www.osha.gov/

Health and Safety Executive (HSE), UK: Methods for the Determination of Hazardous Substances http://www.hse.gov.uk/

Institut für Arbeitsschutz Deutschen Gesetzlichen Unfallversicherung (IFA) , Germany http://www.dguv.de/inhalt/index.jsp

L'Institut National de Recherche et de Securité, (INRS), France http://www.inrs.fr/accueil

# **Engineering measures**

: The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include:

Adequate ventilation to control airborne concentrations.

Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.

#### General Information:

Define procedures for safe handling and maintenance of controls.

Educate and train workers in the hazards and control measures relevant to normal activities associated with this product.

Ensure appropriate selection, testing and maintenance of equipment used to control exposure, e.g. personal protective equipment, local exhaust ventilation.

Drain down system prior to equipment break-in or maintenance

Retain drain downs in sealed storage pending disposal or subsequent recycle.

Always observe good personal hygiene measures, such as washing hands after handling the material and before eating,

5 / 14 800001003713

According to the Hazardous Products Regulations

# Pennzoil ATF Type F

Version 1.6

Revision Date: 2016-05-23

SDS Number: 800001003713

Print Date: 2016-05-24 Date of last issue: 25.04.2016 Date of first issue: 16.12.2008

drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

#### Tradition good Housekeep

# Personal protective equipment

Respiratory protection

No respiratory protection is ordinarily required under normal conditions of use.

In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material. If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appro-

priate combination of mask and filter.

Select a filter suitable for the combination of organic gases and vapours [Type A/Type P boiling point >65°C (149°F)].

Hand protection Remarks

Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection. PVC, neoprene or nitrile rubber gloves Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended. For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified. For short-term/splash protection we recommend the same, but recognize that suitable gloves offering this level of protection may not be available and in this case a lower breakthrough time maybe acceptable so long as appropriate maintenance and replacement regimes are followed. Glove thickness is not a good predictor of glove resistance to a chemical as it is dependent on the exact composition of the glove material. Glove thickness should be typically greater than 0.35 mm depending on the glove make and model.

Eye protection

: If material is handled such that it could be splashed into eyes,

protective eyewear is recommended.

Skin and body protection

Skin protection is not ordinarily required beyond standard

work clothes.

It is good practice to wear chemical resistant gloves.

6 / 14 800001003713

According to the Hazardous Products Regulations

# Pennzoil ATF Type F

Version 1.6

Revision Date: 2016-05-23

SDS Number: 800001003713

Print Date: 2016-05-24 Date of last issue: 25.04.2016

Date of first issue: 16.12.2008

Thermal hazards : Not applicable

Protective measures : Personal protective equipment (PPE) should meet recom-

mended national standards. Check with PPE suppliers.

#### **Environmental exposure controls**

General advice : Take appropriate measures to fulfill the requirements of rele-

vant environmental protection legislation. Avoid contamination of the environment by following advice given in Chapter 6. If necessary, prevent undissolved material from being discharged to waste water. Waste water should be treated in a municipal or industrial waste water treatment plant before

discharge to surface water.

Local guidelines on emission limits for volatile substances must be observed for the discharge of exhaust air containing

vapour.

# **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : Liquid at room temperature.

Colour : red

Odour : Slight hydrocarbon

Odour Threshold : Data not available

pH : Not applicable

pour point : -42 °C / -44 °F

Method: ISO 3016

Initial boiling point and boiling

range

: > 280 °C / 536 °F estimated value(s)

Flash point :  $180 \,^{\circ}\text{C} / 356 \,^{\circ}\text{F}$ 

Method: ISO 2592

Evaporation rate : Data not available

Flammability (solid, gas) : Data not available

Upper explosion limit : Typical 10 %(V)

Lower explosion limit : Typical 1 %(V)

Vapour pressure :  $< 0.5 \text{ Pa} (20 \,^{\circ}\text{C} / 68 \,^{\circ}\text{F})$ 

7 / 14 800001003713 CA

According to the Hazardous Products Regulations

# Pennzoil ATF Type F

Version 1.6

Revision Date: 2016-05-23

SDS Number: 800001003713

Print Date: 2016-05-24 Date of last issue: 25.04.2016 Date of first issue: 16.12.2008

estimated value(s)

Relative vapour density :

estimated value(s)

Relative density :  $0.876 (15 \,^{\circ}\text{C} / 59 \,^{\circ}\text{F})$ 

Density : 876 kg/m3 (15.0 °C / 59.0 °F)Method: ISO 12185

Solubility(ies)

Water solubility : negligible

Solubility in other solvents : Data not available

Partition coefficient: n-

: Pow: > 6

octanol/water

(based on information on similar products)

Auto-ignition temperature : > 320 °C / 608 °F

Viscosity

Viscosity, dynamic : Data not available

Viscosity, kinematic : 8.4 mm2/s (100 °C / 212 °F)

Method: ISO 3104

39.9 mm2/s (40.0 °C / 104.0 °F)

Method: ISO 3104

Explosive properties : Not classified

Oxidizing properties : Data not available

Conductivity : This material is not expected to be a static accumulator.

Decomposition temperature : Data not available

#### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : The product does not pose any further reactivity hazards in

addition to those listed in the following sub-paragraph.

Chemical stability : Stable.

Possibility of hazardous reac-

tions

: Reacts with strong oxidising agents.

Conditions to avoid : Extremes of temperature and direct sunlight.

Incompatible materials : Strong oxidising agents.

Hazardous decomposition : Hazardous decomposition products are not expected to form

8 / 14 800001003713

CA

According to the Hazardous Products Regulations

# Pennzoil ATF Type F

 Version
 Revision Date:
 SDS Number:
 Print Date: 2016-05-24

 1.6
 2016-05-23
 800001003713
 Date of last issue: 25.04.2016

 Date of first issue: 16.12.2008

products during normal storage.

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

Basis for assessment : Information given is based on data on the components and

the toxicology of similar products. Unless indicated otherwise, the data presented is representative of the product as a

whole, rather than for individual component(s).

#### Information on likely routes of exposure

Skin and eye contact are the primary routes of exposure although exposure may occur following accidental ingestion.

# **Acute toxicity**

#### **Product:**

Acute oral toxicity : LD50 (rat): > 5,000 mg/kg

Remarks: Expected to be of low toxicity:

Acute inhalation toxicity : Remarks: Not considered to be an inhalation hazard under

normal conditions of use.

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

Remarks: Expected to be of low toxicity:

#### Skin corrosion/irritation

#### **Product:**

Remarks: Expected to be slightly irritating.

Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.

# Serious eye damage/eye irritation

#### **Product:**

Remarks: Expected to be slightly irritating.

# Respiratory or skin sensitisation

# **Product:**

Remarks: Not expected to be a skin sensitiser.

#### Germ cell mutagenicity

# **Product:**

Genotoxicity in vivo : Remarks: Not considered a mutagenic hazard.

9 / 14 800001003713 CA

According to the Hazardous Products Regulations

# Pennzoil ATF Type F

Version F

Revision Date: 2016-05-23

SDS Number: 800001003713

Print Date: 2016-05-24 Date of last issue: 25.04.2016 Date of first issue: 16.12.2008

#### Carcinogenicity

# **Product:**

Remarks: Not expected to be carcinogenic.

Remarks: Product contains mineral oils of types shown to be non-carcinogenic in animal skin-painting studies.

Highly refined mineral oils are not classified as carcinogenic by the International Agency for Research on Cancer (IARC).

# Reproductive toxicity

#### **Product:**

Effects on fertility

Remarks: Not expected to impair fertility. Not expected to be a developmental toxicant.

# STOT - single exposure

#### **Product:**

Remarks: Not expected to be a hazard.

# STOT - repeated exposure

# **Product:**

Remarks: Not expected to be a hazard.

# **Aspiration toxicity**

#### **Product:**

Not considered an aspiration hazard.

#### **Further information**

# **Product:**

Remarks: Used oils may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and they may present risks to health and the environment on disposal.

ALL used oil should be handled with caution and skin contact avoided as far as possible.

Remarks: Slightly irritating to respiratory system.

#### **SECTION 12. ECOLOGICAL INFORMATION**

Basis for assessment : Ecotoxicological data have not been determined specifically

for this product.

Information given is based on a knowledge of the components

and the ecotoxicology of similar products.

Unless indicated otherwise, the data presented is representa-

10 / 14 800001003713

According to the Hazardous Products Regulations

# Pennzoil ATF Type F

Version 1.6

Revision Date: 2016-05-23

SDS Number: 800001003713 Print Date: 2016-05-24 Date of last issue: 25.04.2016 Date of first issue: 16.12.2008

tive of the product as a whole, rather than for individual component(s).(LL/EL/IL50 expressed as the nominal amount of product required to prepare aqueous test extract).

# **Ecotoxicity**

**Product:** 

Toxicity to fish (Acute toxici-

ty)

Remarks: Expected to be practically non toxic:

LL/EL/IL50 > 100 mg/l

Toxicity to crustacean (Acute

toxicity)

Remarks: Expected to be practically non toxic:

LL/EL/IL50 > 100 mg/l

Toxicity to algae/aquatic

plants (Acute toxicity)

Remarks: Expected to be practically non toxic:

LL/EL/IL50 > 100 mg/l

Toxicity to fish (Chronic tox-

icity)

: Remarks: Data not available

Toxicity to crustacean (Chronic toxicity)

Toxicity to microorganisms

(Acute toxicity)

: Remarks: Data not available

: Remarks: Data not available

#### Persistence and degradability

**Product:** 

Biodegradability : Remarks: Expected to be not readily biodegradable.

> Major constituents are expected to be inherently biodegradable, but contains components that may persist in the environ-

ment.

# **Bioaccumulative potential**

**Product:** 

: Remarks: Contains components with the potential to bioac-Bioaccumulation

cumulate.

Partition coefficient: n-

octanol/water

: Pow: > 6

Remarks: (based on information on similar products)

Mobility in soil

**Product:** 

Mobility : Remarks: Liquid under most environmental conditions.

If it enters soil, it will adsorb to soil particles and will not be

mobile.

Remarks: Floats on water.

11 / 14 800001003713 CA

According to the Hazardous Products Regulations

# Pennzoil ATF Type F

Version 1.6

Revision Date: 2016-05-23

SDS Number: 800001003713

Print Date: 2016-05-24 Date of last issue: 25.04.2016 Date of first issue: 16.12.2008

#### Other adverse effects

# **Product:**

Additional ecological information

 Product is a mixture of non-volatile components, which are not expected to be released to air in any significant quantities.
 Not expected to have ozone depletion potential, photochemical ozone creation potential or global warming potential.

Poorly soluble mixture.

May cause physical fouling of aquatic organisms.

Mineral oil is not expected to cause any chronic effects to aquatic organisms at concentrations less than 1 mg/l.

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

#### **Disposal methods**

Waste from residues

: Waste product should not be allowed to contaminate soil or ground water, or be disposed of into the environment.

Waste, spills or used product is dangerous waste.

Disposal should be in accordance with applicable regional,

national, and local laws and regulations.

Local regulations may be more stringent than regional or na-

tional requirements and must be complied with.

Contaminated packaging

: Dispose in accordance with prevailing regulations, preferably to a recognized collector or contractor. The competence of the collector or contractor should be established beforehand. Disposal should be in accordance with applicable regional, national, and local laws and regulations.

national, and local laws and regulations.

# **SECTION 14. TRANSPORT INFORMATION**

#### **National Regulations**

**TDG** 

Not regulated as a dangerous good

# **International Regulation**

**IATA-DGR** 

Not regulated as a dangerous good

**IMDG-Code** 

Not regulated as a dangerous good

# Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Pollution category : Not applicable

12 / 14 800001003713

According to the Hazardous Products Regulations

# Pennzoil ATF Type F

 Version
 Revision Date:
 SDS Number:
 Print Date: 2016-05-24

 1.6
 2016-05-23
 800001003713
 Date of last issue: 25.04.2016

 Date of first issue: 16.12.2008

Ship type : Not applicable
Product name : Not applicable
Special precautions : Not applicable

Special precautions for user

Remarks : Special Precautions: Refer to Chapter 7, Handling & Storage,

for special precautions which a user needs to be aware of or

needs to comply with in connection with transport.

**Additional Information**: MARPOL Annex 1 rules apply for bulk shipments by sea.

#### **SECTION 15. REGULATORY INFORMATION**

# Safety, health and environmental regulations/legislation specific for the substance or mixture

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

# The components of this product are reported in the following inventories:

EINECS : All components listed or polymer exempt.

TSCA : All components listed.

DSL : All components listed.

# **SECTION 16. OTHER INFORMATION**

# Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN -Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC -No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Eco-

13 / 14 800001003713

## SAFETY DATA SHEET

According to the Hazardous Products Regulations

# Pennzoil ATF Type F

 Version
 Revision Date:
 SDS Number:
 Print Date: 2016-05-24

 1.6
 2016-05-23
 800001003713
 Date of last issue: 25.04.2016

 Date of first issue: 16.12.2008

nomic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

A vertical bar (|) in the left margin indicates an amendment from the previous version.

Revision Date : 2016-05-23

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

CA / EN

14 / 14 800001003713

# SAFETY DATA SHEET Hydrogen Peroxide 35% Standard

**SDS #**: 7722-84-1-35-10 **Revision date:** 2015-05-08

Distributed by:

**SAL Chemical** 

3036 Birch Drive.

Weirton, WV 26062

304.748.8200 - Phone 304.797.8751 - Fax

Format: NA Version 1



#### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier** 

Product Name Hydrogen Peroxide 35% Standard

Other means of identification

**CAS-No** 7722-84-1

Recommended use of the chemical and restrictions on use

Recommended Use: Industrial bleaching, processing, pollution abatement and general oxidation reactions

**Restrictions on Use:** Use as recommended by the label.

Manufacturer/Supplier

PeroxyChem LLC 2005 Market Street Suite 3200

Suite 3200

Philadelphia, PA 19103

Phone: +1 267/422-2400 (General Information)

E-Mail: sdsinfo@peroxychem.com

PeroxyChem Canada PG Pulp Mill Road

Prince George, BC V2N2S6

1+ 250/ 561-4200 (General Information)

Emergency telephone number

For leak, fire, spill or accident emergencies, call:

1 800 / 424 9300 (CHEMTREC - U.S.A.)

1 703 / 527 3887 (CHEMTREC - Collect - All Other Countries)

1 613/ 996-6666 (CANUTEC - Canada) 1 303/ 389-1409 (Medical - U.S. - Call Collect)

1 281 / 474-8750 (Bayport, Texas Plant)

1 250 / 561-4221 (Prince George, BC, Canada Plant)

#### 2. HAZARDS IDENTIFICATION

#### Classification

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Vapors)	Category 4
Skin corrosion/irritation	Category 2 Sub-category B
Serious eye damage/eye irritation	Category 1

Version 1

	70.001
Specific target organ toxicity (single exposure)	Category 3
Oxidizing Liquids	Category 2

#### GHS Label elements, including precautionary statements

#### **EMERGENCY OVERVIEW**

# Danger

#### **Hazard Statements**

- H318 Causes serious eve damage
- H302 Harmful if swallowed
- H332 Harmful if inhaled
- H335 May cause respiratory irritation
- H315 Causes skin irritation
- H270 May cause or intensify fire; oxidizer



#### **Precautionary Statements - Prevention**

- P271 Use only outdoors or in a well-ventilated area
- P261 Avoid breathing mist/vapors/spray
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection
- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking
- P221 Take any precaution to avoid mixing with combustibles/flammables
- P220 Keep/Store away from clothing/flammable materials/combustibles

#### **Precautionary Statements - Response**

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

- P310 Immediately call a POISON CENTER or doctor
- P302 + P352 IF ON SKIN: Wash with plenty of water.
- P332 + P313 If skin irritation occurs: Get medical advice/ attention
- P362 + P364 Take off all contaminated clothing and wash it before reuse
- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing
- P312 Call a POISON CENTER or doctor if you feel unwell
- P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell
- P330 Rinse mouth
- P370 + P378 In case of fire: Use water for extinction

#### Hazards not otherwise classified (HNOC)

No hazards not otherwise classified were identified.

# Other Information

Keep container in a cool place out of direct sunlight. Store only in vented containers. Do not store on wooden pallets. Do not return unused material to its original container. Avoid contamination - Contamination could cause decomposition and generation of oxygen which may result in high pressure and possible container rupture. Empty drums should be triple rinsed with water before discarding. .

Version 1

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula HO - OH

Chemical name	CAS-No	Weight %
Hydrogen peroxide	7722-84-1	35
Water	7732-18-5	65

Occupational exposure limits, if available, are listed in section 8

4. FI	IRST	AID I	MEAS	URES
-------	------	-------	------	------

**Eye Contact**Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Seek

immediate medical attention/advice.

**Skin Contact**Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20

minutes. Call a poison control center or doctor for further treatment advice.

**Inhalation** Move to fresh air. If person is not breathing, contact emergency medical services, then give

artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or

doctor for further treatment advice.

Ingestion Rinse mouth. Do not induce vomiting. If conscious, give 2 glasses of water. Get immediate

medical attention. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

In case of accidental ingestion, necrosis may result from mucous membrane burns (mouth, esophagus and stomach). Oxygen rapid release may cause stomach swelling and

hemorrhaging, which may product major, or even fatal, injury to organs if a large amount

has been ingested.

In case of skin contact, may cause burns, erythema, blisters or even necrosis. Hydrogen

Peroxide irritates respiratory system and, if inhaled, may cause inflammation and pulmonary edema. The effects may not be immediate.

Indication of immediate medical attention and special treatment

needed, if necessary

Hydrogen peroxide at these concentrations is a strong oxidant. Direct contact with the eye is likely to cause corneal damage especially if not washed immediately. Careful opthalmologic evaluation is recommended and the possibility of local corticosteroid therapy

should be considered. Because of the likelihood of corrosive effects on the gastrointestinal tract after ingestion, and the unlikelihood of systemic effects, attemps at evacuating the stomach via emesis induction or gastric lavage should be avoided. There is a remote possibility, however, that a nasogastric or orogastric tube may be required for the reduction

of severe distension due to gas formation.

# 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media Water. Do not use any other substance.

**Specific Hazards Arising from the** 

Chemical

In closed unventilated containers, risk of rupture due to the increased pressure from

decomposition. Contact with combustible material may cause fire

Hazardous Combustion Products On decomposition product releases oxygen which may intensify fire.

**Explosion data** 

Sensitivity to Mechanical Impact Sensitivity to Static Discharge Not sensitive.

Protective equipment and precautions for firefighters

Use water spray to cool fire exposed surfaces and protect personnel. Move containers from fire area if you can do it without risk. As in any fire, wear self-contained breathing apparatus and full protective gear.

#### 6. ACCIDENTAL RELEASE MEASURES

Version 1

Personal Precautions Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Isolate and

post spill area. Keep people away from and upwind of spill/leak. Eliminate all sources of

ignition and remove combustible materials.

Other Combustible materials exposed to hydrogen peroxide should be immediately submerged in

or rinsed with large amounts of water to ensure that all hydrogen peroxide is removed. Residual hydrogen peroxide that is allowed to dry (upon evaporation hydrogen peroxide can concentrate) on organic materials such as paper, fabrics, cotton, leather, wood or other

combustibles can cause the material to ignite and result in fire.

**Environmental Precautions** Do not flush into surface water or sanitary sewer system; if discharged into sewers or

watercourses, dilute with plenty of water. See Section 12 for additional Ecological

Information.

Methods for Containment Dike to collect large liquid spills. Stop leak and contain spill if this can be done safely. Small

spillage: Dilute with large quantities of water.

Methods for cleaning up Flush area with flooding quantities of water. Hydrogen peroxide may be decomposed by

adding sodium metabisulfite or sodium sulfite after diluting to about 5%.

#### 7. HANDLING AND STORAGE

Handling Keep/Store away from clothing/ combustible materials. Wear personal protective

equipment. Reference to other sections. Never return unused hydrogen peroxide to original container. Contamination may cause decomposition and generation of oxygen gas which could result in high pressures and possible container rupture. Empty drums should be triple rinsed with water before discarding. Utensils used for handling hydrogen peroxide should only be made of glass, stainless steel, aluminum or plastic. Pipes and equipment should be passivated before first use. Use only in well-ventilated areas. Hydrogen peroxide should be

stored only in vented containers and transferred only in a prescribed manner.

Storage Keep containers in cool areas out of direct sunlight and away from combustibles. Provide

mechanical general and/or local exhaust ventilation to prevent release of vapor or mist into work environment. Containers must be vented. Keep/store only in original container. Store rooms or warehouses should be made of non-combustible materials with impermeable floors. In case of release, spillage should flow to safe area. Containers should be visually inspected on a regular basis to detect any abnormalities (swollen drums, increases in

temperature, etc.).

Incompatible products

Combustible materials. Copper alloys, galvanized iron. Strong reducing agents. Heavy metals. Iron. Copper alloys. Contact with metals, metallic ions, alkalis, reducing agents and

organic matter (such as alcohols or terpenes) may produce self-accelerated thermal

decomposition.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

**Exposure Guidelines** Ingredients with workplace control parameters.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH	Mexico
Hydrogen peroxide	TWA: 1 ppm	TWA: 1 ppm	IDLH: 75 ppm	Mexico: TWA 1 ppm
7722-84-1		TWA: 1.4 mg/m <sup>3</sup>	TWA: 1 ppm	Mexico: TWA 1.5 mg/m <sup>3</sup>
			TWA: 1.4 mg/m <sup>3</sup>	Mexico: STEL 2 ppm
				Mexico: STEL 3 mg/m <sup>3</sup>
Chemical name	British Columbia	Quebec	Ontario TWAEV	Alberta
Hydrogen peroxide	TWA: 1 ppm	TWA: 1 ppm	TWA: 1 ppm	TWA: 1 ppm
7722-84-1		TWA: 1.4 mg/m <sup>3</sup>		TWA: 1.4 mg/m <sup>3</sup>

Version 1

**Engineering measures** Ensure that eyewash stations and safety showers are close to the workstation location.

Ensure adequate ventilation.

#### Individual protection measures, such as personal protective equipment

acetate, polycarbonate/acetate, PETG or thermoplastic.

**Skin and Body Protection**For body protection wear impervious clothing such as an approved splash protective suit made of SBR rubber, PVC (PVC Outershell w/Polyester Substrate), Gore-Tex (Polyester

trilaminate w/Gore-Tex), or a specialized HAZMAT Splash or Protective Suite (Level A, B, or C). For foot protection, wear approved boots made of NBR, PVC, Polyurethane, or neoprene. Overboots made of Latex or PVC, as well as firefighter boots or specialized HAZMAT boots are also permitted. DO NOT wear any form of boot or overboot made of nylon or nylon blends. DO NOT USE cotton, wool or leather as these materials react rapidly with higher concentrations of hydrogen peroxide. Completely submerge hydrogen peroxide contaminated clothing or other materials in water prior to drying. Residual hydrogen peroxide, if allowed to dry on materials such as paper, fabrics, cotton, leather, wood or

other combustibles, can cause the material to ignite and result in a fire.

Hand Protection For hand protection, wear approved gloves made of nitrile, PVC, or neoprene. DO NOT

use cotton, wool or leather for these materials react RAPIDLY with higher concentrations of hydrogen peroxide. Thoroughly rinse the outside of gloves with water prior to removal.

Inspect regularly for leaks.

Respiratory Protection If concentrations in excess of 10 ppm are expected, use NIOSH/DHHS approved

self-contained breathing apparatus (SCBA) or other approved air-supplied respirator (ASR) equipment (e.g., a full-face airline respirator (ALR)). DO NOT use any form of air-purifying respirator (APR) or filtering facepiece (dust mask), especially those containing oxidizable

sorbants such as activated carbon.

Hygiene measures Avoid breathing vapors, mist or gas. Clean water should be available for washing in case of

eye or skin contamination. .

General information Protective engineering solutions should be implemented and in use before personal

protective equipment is considered.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Appearance Clear, colorless liquid

Physical State
Color
Colorless
Odor
Odor threshold
PH
Colorless
Odor threshold
Not applicable
C= 3.7
Melting point/freezing point
-33 °C

Boiling Point/Range 108 °C
Flash point Not flammable

Evaporation Rate > 1 (n-butyl acetate=1)

Flammability (solid, gas) Not flammable Flammability Limit in Air Not applicable

Upper flammability limit: Lower flammability limit:

Vapor pressure23 mm Hg @ 30 °CVapor densityNo information availableDensity1.13 g/cm³ @ 20°C

Specific gravity 1.13

Water solubility
Solubility in other solvents
Partition coefficient
Autoignition temperature
Decomposition temperature
Completely soluble
No information available
log Kow = -1.5 @ 20 °C
Not combustible
100 °C (adiabatic)

Version 1

Viscosity, kinematic 1.10 cP @ 20 °C No information available Viscosity, dynamic **Explosive properties** No information available **Oxidizing properties** Strong oxidizer

Molecular weight

**Bulk density** Not applicable

# 10. STABILITY AND REACTIVITY

Reactivity Reactive and oxidizing agent.

**Chemical Stability** Stable under normal conditions. Decomposes on heating. Stable under recommended

storage conditions.

Possibility of Hazardous Reactions Contact with organic substances may cause fire or explosion. Contact with metals, metallic

ions, alkalis, reducing agents and organic matter (such as alcohols or terpenes) may

produce self-accelerated thermal decomposition.

Hazardous polymerization Hazardous polymerization does not occur.

Excessive heat; Contamination; Exposure to UV-rays; pH variations. Conditions to avoid

Incompatible materials Combustible materials. Copper alloys, galvanized iron. Strong reducing agents. Heavy

> metals. Iron. Copper alloys. Contact with metals, metallic ions, alkalis, reducing agents and organic matter (such as alcohols or terpenes) may produce self-accelerated thermal

decomposition.

Hazardous Decomposition Products Oxygen which supports combustion. Liable to produce overpressure in container.

#### 11. TOXICOLOGICAL INFORMATION

**Product Information** 

LC50 Inhalation

LD50 Oral 50% solution: LD50 > 225 mg/kg bw (rat)

35 % solution:LD50 1193 mg/kg bw (rat) 70 % solution: LD50 1026 mg/kg bw (rat) 35% solution: LD50 > 2000 mg/kg bw (rabbit)

**LD50 Dermal** 70 % solution: LD50 9200 mg/kg bw (rabbit) 50% solution: LC50 > 170 mg/m<sup>3</sup> (rat) (4-hr)

Hydrogen Peroxide vapors: LC0 9400 mg/m³ (mouse) (5 - 15 minutes)

Hydrogen Peroxide vapors: LC50 > 2160 mg/m³ (mouse)

Serious eye damage/eye irritation

Skin corrosion/irritation

Corrosive. Risk of serious damage to eyes.

Moderately irritating (rabbit).

Sensitization Did not cause sensitization on laboratory animals.

#### Information on toxicological effects

Vapors, mists, or aerosols of hydrogen peroxide can cause upper airway irritation, **Symptoms** 

inflammation of the nose, hoarseness, shortness of breath, and a sensation of burning or tightness in the chest. Prolonged exposure to concentrated vapor or to dilute solutions can cause irritation and temporary bleaching of skin and hair. Exposure to vapor, mist, or

aerosol can cause stinging pain and tearing of eyes.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

This product contains hydrogen peroxide. The International Agency for Research on Carcinogenicity

Cancer (IARC) has conculded that there is inadequate evidence for carcinogenicity of hydrogen peroxide in humans, but limited evidence in experimental animals (Group 3 - not

classifiable as to its carcinogenicity to humans). The American Conference of

Governmental Industrial Hygienists (ACGIH) has concluded that hydrogen peroxide is a

Version 1

'Confirmed Animal Carcinogen with Unknown Relevance to Humans' (A3).

Chemical name	ACGIH	IARC	NTP	OSHA
Hydrogen peroxide 7722-84-1	А3	3		

Mutagenicity This product is not recognized as mutagenic by Research Agencies

In vivo tests did not show mutagenic effects

**Reproductive toxicity**No toxicity to reproduction in animal studies.

STOT - single exposure STOT - repeated exposure May cause respiratory irritation.

Not classified.

**Target organ effects** Eyes, Respiratory System, Skin.

Aspiration hazard Aspiration risk: may cause lung damage if swallowed.

#### 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

Ecotoxicity effects

Hydrogen peroxide is naturally produced by sunlight (between 0.1 and 4 ppb in air and 0.001 to 0.1 mg/L in water). Not expected to have significant environmental effects.

Hydrogen peroxide (7722-84-1)					
Active Ingredient(s)	Duration	Species	Value	Units	
Hydrogen peroxide	96 h LC50	Fish Pimephales promelas	16.4	mg/L	
Hydrogen peroxide	72 h LC50	Fish Leuciscus idus	35	mg/L	
Hydrogen peroxide	48 h EC50	Daphnia pulex	2.4	mg/L	
Hydrogen peroxide	24 h EC50	Daphnia magna	7.7	mg/L	
Hydrogen peroxide	72 h EC50	Algae Skeletonema costatum	1.38	mg/L	
Hydrogen peroxide	21 d NOEC	Daphnia magna	0.63	mg/L	

Persistence and degradability Hydrogen peroxide in the aquatic environment is subject to various reduction or oxidation

processes and decomposes into water and oxygen. Hydrogen peroxide half-life in freshwater ranged from 8 hours to 20 days, in air from 10 - 20 hours, and in soils from minutes to hours depending upon microbiological activity and metal contamination.

Bioaccumulation Material may have some potential to bioaccumulate but will likely degrade in most

environments before accumulation can occur.

Mobility Will likely be mobile in the environment due to its water solubility but will likely degrade over

time.

Other Adverse Effects Decomposes into oxygen and water. No adverse effects.

## 13. DISPOSAL CONSIDERATIONS

Waste disposal methods Dispose of in accordance with local regulations. Can be disposed as waste water, when in

compliance with local regulations.

US EPA Waste Number D001

**Contaminated Packaging** Dispose of in accordance with local regulations.

Drums - Empty as thoroughly as possible. Triple rinse drums before disposal. Avoid contamination; impurities accelerate decomposition. Never return product to original

Version 1

container.

# 14. TRANSPORT INFORMATION

DOT

Proper Shipping Name HYDROGEN PEROXIDE, AQUEOUS SOLUTION

Hazard class 5.1 Subsidiary class 8 Packing Group II

TDG

**UN/ID no** UN 2014

Proper Shipping Name HYDROGEN PEROXIDE, AQUEOUS SOLUTION

Hazard class5.1Subsidiary class8Packing GroupII

ICAO/IATA Air regulation permit shipment of Hydrogen Peroxide (<=40%) in non-vented containers for

Air Cargo Only aircraft, as well as for Passenger and Cargo aircraft. HOWEVER, all PeroxyChem Hydrogen Peroxide containers are vented and therefore, air shipments of PeroxyChem H2O2 are not permitted. IATA air regulations state that venting of packages

containing oxidizing substances is not permitted for air transport.

IMDG/IMO

**UN/ID no** UN 2014

Proper Shipping Name HYDROGEN PEROXIDE, AQUEOUS SOLUTION

Hazard class 5.1 Subsidiary Hazard Class 8 Packing Group II

OTHER INFORMATION Protect from physical damage. Keep drums in upright position. Drums should not be

stacked in transit. Do not store drums on wooden pallets.

#### 15. REGULATORY INFORMATION

# **U.S. Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

# SARA 311/312 Hazard Categories

Acute health hazard
Chronic health hazard
Fire hazard
Sudden release of pressure hazard
No
Reactive Hazard
No

## **Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### **CERCLA**

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	SARA RQ
Hydrogen peroxide 7722-84-1		1000 lb	

Version 1

#### **International Inventories**

Component	TSCA (United States)	DSL (Canada)	EINECS/EL INCS (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines )	AICS (Australia)	NZIoC (New Zealand)
Hydrogen peroxide 7722-84-1 (35)	Χ	Х	X	X	Х	Х	X	X	Х

Mexico - Grade Serious risk, Grade 3

**CANADA** 

WHMIS Hazard Class C - Oxidizing materials

D1B - Toxic materials E - Corrosive material

F - Dangerously reactive material









# 16. OTHER INFORMATION

NFPA	Health Hazards 3	Flammability 0	Stability 1	Special Hazards OX
HMIS	Health Hazards 3	Flammability 0	Physical hazard 1	Special precautions H

NFPA/HMIS Ratings Legend Severe = 4; Serious = 3; Moderate = 2; Slight = 1; Minimal = 0

Special Hazards: OX = Oxidizer

Protection = H (Safety goggles, gloves, apron, the use of supplied air or SCBA respirator is

required in lieu of a vapor cartidge respirator)

Uniform Fire Code Oxidizer: Class 2--Liquid

Revision date: 2015-05-08
Revision note Initial Release

#### **Disclaimer**

PeroxyChem believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specified product designated and may not be applicable where such product is used in combination with any other materials or in any process. Further, since the conditions and methods of use are beyond the control of PeroxyChem, PeroxyChem expressly disclaims any and all liability as to any results obtained or arising from any use of the products or reliance on such information.

Prepared By:

PeroxyChem
© 2015 PeroxyChem. All Rights Reserved.
End of Safety Data Sheet

# Material Safety Data Sheet

**Phoenix 27-A Water Dispersible Pipe Joint Lubricant** 

Date of Preparation: August 1998/Revised 11/2010

# **Section 1 - Chemical Product and Company Identification**

**Product/Chemical Name:** Phoenix 27-A Water Dispersible Pipe Joint Lubricant

**Chemical Formula:** 88-6R7

Manufacturer: JTM Products, Inc., 31025 Carter Street, Solon, OH 44139, Phone (440) 287-2302, FAX (440) 287-3095

(CHEM-TEL 24-hour emergency: (800) 255-3924)

# **Section 2 - Composition / Information on Ingredients**

Proprietary blend of soap [CAS#61790-44-1], glycol [CAS#57-55-6] and filler [CAS#12001-26-2].

revised April 2009 - D. Barrer

#### **Section 3 - Hazards Identification**

# ☆☆☆☆ Emergency Overview ☆☆☆☆

#### **Potential Health Effects**

Primary Entry Routes: Not Hazardous

Carcinogenicity: IARC, NTP, and OSHA do not list the ingredients in Phoenix 27-A Pipe Joint Lubricant

as carcinogens.

HMIS H 1 F 0 R 0 PPE<sup>†</sup> †Sec. 8

**NFPA** 

#### **Section 4 - First Aid Measures**

**Eye Contact:** Flush with copious volumes of water for 15 minutes while holding eyelids open.

**Skin Contact:** Wash with water. *If irritation persists, call a physician.* 

# **Section 5 - Fire-Fighting Measures**

Flash Point: >220 °F (>104 °C)

Flash Point Method: NA, contains water

LEL: NA

UEL: NA

**Autoignition Temperature:** NA **Flammability Classification:** 0 **Extinguishing Media:** Water, water fog, alcohol foam, carbon dioxide or dry chemical are all

suitable.

**Unusual Fire or Explosion Hazards:** None **Hazardous Combustion Products:** None

**Fire-Fighting Instructions:** Do not release runoff from fire control methods to sewers or waterways.

**Fire-Fighting Equipment:** Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full facepiece operated in pressure-demand or positive-pressure mode.

#### **Section 6 - Accidental Release Measures**

**Spill /Leak Procedures:** This product is a biodegradable soap.

**Containment:** For large spills, dike far ahead of spill for later disposal.

Cleanup: Place the bulk of any spilled material into drums, then rinse any remaining material to sewage treatment

facility, in accordance with any applicable regulations.

Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120).

# **Section 7 - Handling and Storage**

**Handling Precautions:** No special precautions are required. **Storage Requirements:** No special precautions are required.

Regulatory Requirements: No known regulatory requirement for handling and storage.

# **Section 8 - Exposure Controls / Personal Protection**

**Engineering Controls:** 

**Ventilation:** Provide general or local exhaust ventilation systems.

**Administrative Controls:** 

**Respiratory Protection:** If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit-testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

# Phoenix 27-A Water Dispersible Pipe Joint Lubricant

**Protective Clothing/Equipment:** Wear chemically protective gloves to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

**Contaminated Equipment:** Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

**Comments:** Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

# **Section 9 - Physical and Chemical Properties**

Physical State: Paste Water Solubility: completely water dispersible

Appearance and Odor: amber paste, bland odor

Boiling Point: >220 °F

Odor Threshold: NAFreezing/Melting Point: <32 °F</th>Vapor Pressure: NAViscosity: viscous pasteVapor Density (Air=1): NARefractive Index: unknownFormula Weight: NA (blend)Surface Tension: unknown

Density: 8.55 lbs./gal. % Volatile: 28 [Revised April 2009]

Specific Gravity (H<sub>2</sub>O=1, at 4 °C): 1.025 Evaporation Rate: NA

**pH:** 11

# Section 10 - Stability and Reactivity

Stability: Phoenix 27-A Pipe Joint Lubricant is stable at room temperature in closed containers under normal storage and

handling conditions.

Polymerization: Hazardous polymerization will not occur.

Chemical Incompatibilities:

Conditions to Avoid: Avoid contact with strong oxidizing agents. [Revised April 2009]

Hazardous Decomposition Products: Thermal oxidative decomposition of Phoenix 27-A Pipe Joint Lubricant can

produce oxides of carbon and nitrogen.

#### **Section 11- Toxicological Information**

# **Toxicity Data:**

**Eye Effects:** Eye irritant [based on blended ingredients].

Skin Effects: Slight skin irritant if allowed to remain in contact.

#### **Section 12 - Ecological Information**

Ecotoxicity: Environmental Fate

Environmental Transport: Unknown. Environmental Degradation: Soaps are well known to be biodegradable.

Soil Absorption/Mobility: Unknown.

# **Section 13 - Disposal Considerations**

**Disposal:** Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations.

# **Section 14 - Transport Information**

Not hazardous under DOT regulations.

#### **Section 15 - Regulatory Information**

EPA Regulations: None apply. All of the components of this material are listed or are exempt from the TSCA inventory.

# **Section 16 - Other Information**

Prepared By: B. Noragon Approved By: B. Roll

**Disclaimer:** JTM PRODUCTS, INC. makes no warranty, expressed or implied, as to the accuracy, completeness, or reliability of information contained herein, except that such information is, to the best of JTM's knowledge and belief, accurate as of the date indicated. It is for the purchaser and/or user to decide whether this information is suitable for his purposes.

Reviewed/Section 2 revised April 2009 D. Barrer; Reviewed/Section 9 & 10 revised April 2009 and section 9 revised July 2010 by D.Barrer; section 15 revised Nov 2010 by D. Barrer

# Safety Data Sheet Portland Cement

#### Section 1. Product Identification

GHS product identifier: Portland Cement

Product Name: Portland Cement Type I, II, I/I, III, V, I/II/V, Blended Hydraulic Cement Type IP, IL, IS, IT, Hydraulic Cement Type GU,

MS, HE, MH, LH, HS, CSA GU, MS, HE, HS, CSA GUL, MSL, HEL, HSL, Masonry Cement Type N, S, M

Synonyms: Portland Cement, Blended Hydraulic Cement, Hydraulic Cement, Oil Well Cement, Portland Limestone Cement, PLC,

Portland Pozzolan Cement, Portland Slag Cement, Portland Blast-Furnace Slag Cement, Ternary Blended Cement, Type I, II, I/I, III, V, I/III/V, Type IP, IL, IS, IT, Type GU, MS, HE, MH, LH, HS, CSA GU, MS, HE, HS, CSA GUL, MSL,

HEL, HSL, OWG, Oil Well Class G, Oil Well Class H, Oil Well Class C

Chemical name: Calcium compounds, calcium silicate compounds, and other calcium compounds containing iron and aluminum make

up the majority of this product.

Other means of identification: Cement, hydraulic cement, Portland cement silicate

Intended Use of Product: Portland cement is the binder used in concrete and mortars for construction purposes. Portland cement is a

basic ingredient of concrete.

Responsible Party: GCC

600 South Cherry Street, Suite 1000

Glendale, CO 80246 (303) 369-5900 www.gcc.com

Emergency telephone No: For Hazardous Materials [or Dangerous Goods] Incident Spill, Leak, Fire, Exposure, or Accident

Call CHEMTREC Day or Night

Within USA and Canada: 1-800-424-9300

Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

#### Section 2. Hazards Identification

#### Section 2, Hazard(s) identification

Overexposure to Portland cement can cause serious, potentially irreversible skin or eye damage in the form of chemical (caustic) burns, including third degree burns. The same serious injury can occur if wet or moist skin has prolonged contact exposure to dry Portland cement.

Portland cement is not classifiable as human carcinogen.

OSHA/HCS status: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200.)

Classification of the<br/>substance or mixture:SKIN CORROSION/IRRITATIONCategory 1CH314SERIOUS EYE DAMAGE/ EYE IRRITATIONCategory 1H318

SKIN SENSITIZATON Category 1B H317

SPECIFIC TARGET ORGNA TOXICITY

[Respiratory tract infection] Category 3 H335

#### **GHS** label elements

#### Hazard pictograms:







Signal word: Danger

**Hazard statements:** H314 - Causes severe skin burns and eye damage.

H317 - May cause an allergic skin reaction.

H335 - May cause respiratory irritation.

H318 - Causes serious eye damage

#### **Precautionary Statements**

Prevention:

Wear protective gloves. Wear eye or face protection. Use only outdoors or in a well-ventilated area. Avoid breathing dust. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Causes eye and skin burns. See Section 4 for additional details. May present risk of engulfment. See Section 7 for additional details. Overexposure to wet cement can cause severe skin damage in the form of chemical burns, including third degree burns. The same severe injury can occur if wet or moist skin is exposed to dry Portland cement. Clothing wet with moisture from cement can transmit the caustic effects to the skin, causing chemical burns. Portland cement causes skin burns with little warning; discomfort or pain cannot be relied upon to alert a person to a serious injury. You may not feel pain or the severity of the burn until hours after the exposure.

MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED BY EXPOSURE: Contact with wet cement may aggravate existing skin conditions. Sensitivity to hexavalent chromium can be aggravated by exposure.

Response:

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Prolonged and repeated inhalation of respirable crystalline silica-containing dust in excess of appropriate exposure limits has caused silicosis, fibrosis or scar tissue formations in the lungs. Call a POISON CENTER or physician if you feel unwell. IF ON SKIN: Wash with plenty of pH neutral soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation or rash occurs: get medical attention. Portland cement may contain trace amounts of hexavalent chromium. Hexavalent chromium is associated with allergic skin reactions which may appear as contact dermatitis and skin ulcerations. Persons already sensitized may react to their first exposure to cement. Other individuals may develop allergic dermatitis after repeated exposure to cement. The symptoms of allergic reactions may include reddening of the skin, rash, and irritation. Symptoms of chronic exposure to wet cement may include reddening, irritation, and eczematous rashes. Drying, thickening, and cracking of the skin and nails may also occur. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Exposure to dust may cause immediate or delayed irritation or inflammation. Eye contact by larger amount of dry power or splashes of wet Portland cement may cause effects ranging from moderate eye irritation to chemical burns or blindness. Immediately call a POISON CENTER or physician. IF INGESTED: Irritating to mouth, throat and stomach. Ingestion of large quantities may cause severe irritation and chemical burns of the mouth, throat, stomach and digestive tract. Do not ingest Portland cement. Get immediate medical attention.

**Storage:** Keep container tightly closed in a dry and well-ventilated area.

**Disposal:** Dispose of contents and container in accordance with all local, regional national and international

regulations.

Hazards not otherwise classified: Not applicable.

# Section 3. Composition/information on ingredients

Substance/mixture: Mixture

**Chemical name:** Portland cement, anhydrite, fluorite, gypsum

Other means of identification:

#### CAS number/other identifiers

**CAS number:** 65997-15-1 (Portland Cement)

Component / Ingredient	CAS#	Percent Present (Range)
Portland Cement	65997-15-1	100

Tricalcium Silicate	12168-85-3	20 - 70
Dicalcium Silicate	10034-77-2	10 - 60
Tetracalcium Aluminoferrite	12068-35-8	5 - 15
Gypsum (Calcium Sulfate)	13397-24-5	2 - 10
Tri-Calcium Aluminate	12042-78-3	1 - 15
Limestone (Calcium Carbonate)	1317-65-3	0 - 20
Fly Ash	329065-12-5	0 - 40
Natural Pozzolan	NA	0 - 40
Slag	65996-69-2	0 - 70
Gypsum (Calcium Sulfate Dihydrate)	13397-24-5	0 - 15
Calcium Sulfate Hemihydrate (Bassanite)	10034-76-1	0 - 15
Anhydrite	14798-04-0	0 - 15
Magnesium Oxide	1309-48-4	<1 - 4
Nuisance Dust (Particles not otherwise regulated)	NA	<1 - 5
Crystalline Silica (Quartz)	14808-60-7	0 - < 1

Occupational exposure limits, if available, are listed in Section 8.

#### Other Components:

Portland Cements are manufactured from a combination of mined materials and fuels. Chemical analysis may show trace amounts of naturally occurring but potentially harmful compounds such as crystalline silica, heavy metals including cadmium, chromium, nickel and lead. Organic compounds from grinding aids such as amine acetate salts and glycols.

#### Section 4. First aid measures

# **Description of necessary first aid measures**

Eye contact: Get medical attention immediately. Call a poison center or physical description of the contact of

Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to

rinse for at least 20 minutes. Chemical burns must be treated promptly by a physician.

**Inhalation:** Seek medical help if coughing or other symptoms persist. Inhalation of large amounts of Portland cement

requires immediate medical attention. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If the individual is not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position

and get medical attention immediately. Maintain an open airway.

Skin Contact: Get medical attention immediately. Heavy exposure to Portland cement dust, wet concrete or associated

water requires prompt attention. Quickly remove contaminated clothing, shoes, and leather goods such as watchbands and belts. Quickly and gently blot or brush away excess Portland cement. Immediately wash thoroughly with lukewarm, gently flowing water and non-abrasive pH neutral soap. Seek medical attention for rashes, burns, irritation, dermatitis and prolonged unprotected exposures to wet cement, cement mixtures or liquids from wet cement. Burns should be treated as caustic burns. Portland cement causes skin burns with little warning. Discomfort or pain cannot be relied upon to alert a person to a serious injury. You may not feel pain or the severity of the burn until hours after the exposure. Chemical burns must be treated promptly

by a physician. In the event of any complaints or symptoms, avoid further exposure.

Ingestion: Get medical attention immediately. Call a poison center or physician. Have victim rinse mouth thoroughly with water. DO NOT INDUCE VOMITING unless directed to do so by medical personnel. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the

exposed person is conscious, give small quantities of water to drink. Have victim drink 60 to 240 mL (2 to

#### TABLE OF CONTENTS

8 oz.) of water. Stop giving water if the exposed person feels sick as vomiting may be dangerous. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

# Most important symptoms/effects, acute and delayed potential acute health effects

Eye contact: Causes serious eye damage.

Inhalation: May cause respiratory irritation.

**Skin contact:** Causes severe burns. May cause an allergic skin reaction.

**Ingestion:** May cause burns to mouth, throat and stomach.

# Over-exposure signs/symptoms

Eye contact: Adverse symptoms may include the following: pain, watering and redness

**Inhalation:** Adverse symptoms may include the following: respiratory tract irritation and coughing

Skin contact: Adverse symptoms may include the following: pain or irritation, redness and blistering may occur, skin burns,

ulceration and necrosis may occur

**Ingestion:** Adverse symptoms may include the following: stomach pains

# Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician: Treat symptomatically. Contact poison treatment specialist immediate if large quantities have been ingested

or inhaled.

**Specific treatments:** Not applicable.

Protection of first-aiders: No action shall be taken involving any personal risk without suitable training. It may be dangerous to the

person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with

water before removing it, or wear gloves.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

# **Extinguishing media**

**Suitable extinguishing media:** Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media:** Do not use water jet or heavy stream of water-based extinguishers. This may spread fire.

Specific hazards arising from

the chemical:

No specific fire or explosion hazard.

Hazardous thermal

decomposition products:

oxides and metal oxide/oxides.

Special protective actions for

fire-fighters:

Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed

Decomposition products may include the following materials: carbon dioxide, carbon monoxide, sulfur

containers cool.

Special protective equipment

for fire-fighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

#### Section 6. Accidental release measures

# Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding

#### TABLE OF CONTENTS

areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For emergency responders:** For personal protective clothing requirements, please see Section 8.

Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Avoid

creating dust. Inform the relevant authorities if the product has entered the environment, including

waterways, soil or air. Materials can enter waterways through drainage systems.

# Methods and materials for containment and cleaning up

Small spill: Move containers from spill area. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment

fitted with a HEPA filter and place in a closed, labeled waste container. Place spilled material in a designated, labeled waste container. Dispose of waste material by using a licensed waste disposal

contractor.

Large spill: Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses,

basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place dust in a closed, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Large spills to waterways may be hazardous due to alkalinity of the product. Dispose of waste material using a licensed waste disposal contractor. Note: see Section 1 for emergency contact

information and Section 13 for waste disposal.

# Section 7. Handling and storage

# Precautions for safe handling

Protective measures: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization

problems should not be employed in any process in which this product is used. Avoid exposure by obtaining and following special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe dust. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material and keep the container tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene:

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for

additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities:

A key to using the product safely requires the user to recognize that Portland cement reacts chemically with water to produce calcium hydroxide which can cause severe chemical burns. Every attempt should be made to avoid skin and eye contact with cement. Do not get Portland cement inside boots, shoes or gloves. Do not allow wet, saturated clothing to remain against the skin. Promptly remove clothing and shoes that are dusty or wet with cement mixtures. Launder/clean clothing and shoes before reuse. Do not enter a confined space that stores or contains Portland cement unless appropriate procedures and protection are available. Portland cement can build up or adhere to the walls of a confined space and then release or fall suddenly (engulfment).

# Section 8. Exposure controls/personal protection

Component	OSHA PEL	ACGIH TLV	NIOSH REL
Portland cement	15 mg/m³ (T); 5 mg/m³ (R)	1 mg/m <sup>3</sup> (R)	10 mg/m³ (T); 5 mg/m³ (R)
Tricalcium Silicate	15 mg/m³ (T); 5 mg/m³ (R)	Not listed	10 mg/m³ (T); 5 mg/m³ (R)
Dicalcium Silicate	15 mg/m³ (T); 5 mg/m³ (R)	Not listed	10 mg/m³ (T); 5 mg/m³ (R)
Tetracalcium Aluminoferrite	15 mg/m³ (T); 5 mg/m³ (R)	Not listed	10 mg/m³ (T); 5 mg/m³ (R)
Gypsum (Calcium Sulfate)	15 mg/m³ (T); 5 mg/m³ (R)	10 mg/m³ (T)	10 mg/m³ (T); 5 mg/m³ (R)
Tricalcium Aluminate	15 mg/m³ (T); 5 mg/m³ (R)	Not listed	10 mg/m³ (T); 5 mg/m³ (R)
Magnesium Oxide	15 mg/m³ (T)	10 mg/m <sup>3</sup>	NA

# Revision Date - 01.03/2022 TABLE OF CONTENTS Portland Cement

Limestone (Calcium Carbonate)	15 mg/m³ (T); 5 mg/m³ (R)	10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup> (T); 5 mg/m <sup>3</sup> (R)
Crystalline Silica	0.05 mg/m <sup>3</sup> (R)	0.025 mg/m <sup>3</sup> (R)	0.05 mg/m <sup>3</sup> (R)
Fly Ash	15 mg/m³ (T); 5 mg/m³ (R)	10 mg/m³ (T); 3 mg/m³ (R)	10 mg/m <sup>3</sup> (T)
Natural Pozzolan	Not listed	Not listed	Not listed
Slag	Not listed	Not listed	Not listed
Gypsum (Calcium Sulfate	15 mg/m3 (T); 5 mg/m3 (R)	5 mg/m3 (T)	15 mg/m <sup>3</sup> (T); 5 mg/m <sup>3</sup> (R)
Dihydrate)			
Plaster of Paris (Calcium Sulfate	15 mg/m³ (T); 5 mg/m³ (R)	Not listed	10 mg/m³ (T); 5 mg/m³ (R
Hemihydrate)			
Anhydrite	15 mg/m³ (T); 5 mg/m³ (R)	5 mg/m <sup>3</sup> (T)	10 mg/m <sup>3</sup> (T)
Nuisance Dust	15 mg/m³ (T); 5 mg/m³ (R)	10 mg/m³ (T)	NA

T = Total Respirable, R = Respirable Fraction

Appropriate engineering controls: Use only with adequate ventilation. If user operations generate dust, use process enclosures, local

exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants

below any recommended or statutory limits.

**Environmental exposure controls:** Emissions from ventilation or work process equipment should be checked to ensure they comply

with the requirements of environmental protection legislation.

# Individual protection measures

Hygiene measures: Clean water should always be readily available for skin and (emergency) eye washing. Periodically wash

areas contacted by Portland cement with a pH neutral soap and clean, uncontaminated water. If clothing becomes saturated with Portland cement, garments should be removed and replaced with clean, dry

clothing.

Eye/face protection: To prevent eye contact, wear safety glasses with side shields, safety goggles or face shields when handling

dust or wet cement. Wearing contact lenses when working with cement is not recommended.

Skin protection

Hand protection: Use impervious, waterproof, abrasion and alkali-resistant gloves. Do not rely on barrier creams in place of

impervious gloves. Do not get Portland cement inside gloves.

Body protection: Use impervious, waterproof, abrasion and alkali-resistant boots and protective long-sleeved and long-legged

clothing to protect the skin from contact with wet Portland cement. To reduce foot and ankle exposure, wear

impervious boots that are high enough to prevent Portland cement from getting inside them.

Do not get Portland cement inside boots, shoes, or gloves. Remove clothing and protective equipment that

becomes saturated with cement and immediately wash exposed areas of the body.

Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task

being performed and the risks involved. Footwear and other gear to protect the skin should be approved by a

specialist before handling this product.

**Respiratory protection:** If dust concentrations in the air exceed occupational guidelines or irritation is experienced, an approved

respirator should be worn. The use of a properly fitted, particulate filtering NIOSH approved respirator is required if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product, and assigned protection factor of the selected

respirator.

# Section 9. Physical and chemical properties

Physical State	Solid, powder	Lower and upper explosive limits	Na
Color	Gray/off white powder	Vapor pressure	Na
Odor	none	Vapor density	Na
Odor Threshold	na	Relative density	2.3 – 3.2
pH	>11 (in water)	Solubility	Slightly soluble in water
Melting Point	na	Solubility in water	0.1 to 1 %

# Revision Date - 01.03/2022 TABLE OF CONTENTS Portland Cement

Boiling Point	>1000°C (>1832°F)	Partition coefficient: n-octanol/water	Na
Flash Point	Nonflammable; non combustible	Auto-ignition temperature	Na
Burning time	na	Decomposition temperature	Na
Burning Rate	na	SADT	Na
Evaporation Rate	na	Viscosity	Na
Flammability (solid, gas)	na		

Na = not applicable

# Section 10. Stability and reactivity

Reactivity: Reacts slowly with water forming hydrated compounds, releasing heat and producing a strong alkaline

solution until reaction is substantially complete.

**Chemical stability:** The product is stable.

Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid: In contact with water, will result in hydration to produce caustic calcium hydroxide

**Incompatible materials:** Reactive or incompatible with the following materials: oxidizing materials, acids, aluminum and ammonium

salt. Portland cement is highly alkaline and will react with acids to produce a violent, heat-generating reaction. Toxic gases or vapors may be given off depending on the acid involved. Reacts with acids, aluminum metals and ammonium salts. Aluminum powder and other alkali and alkaline earth elements will react in wet mortar or concrete, liberating hydrogen gas. Limestone ignites on contact with fluorine and is incompatible with acids, alum, ammonium salts, and magnesium. Silica reacts violently with powerful oxidizing agents such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride, and oxygen difluoride yielding possible fire and/or explosions. Silicates dissolve readily in hydrofluoric acid producing a

corrosive gas — silicon tetrafluoride.

Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# Section 11. Toxicological information

# Information on toxicological effects

Acute toxicity: Portland Cement LD50/LC50 = Not available

Irritation/Corrosion: Skin: May cause skin irritation. May cause serious burns in the presence of moisture.

**Eyes:** Causes serious eye damage. May cause burns in the presence of moisture.

Respiratory: May cause respiratory tract irritation.

Sensitization: May cause sensitization due to the potential presence of trace amounts of hexavalent chromium.

Mutagenicity: There are no data available.

Carcinogenicity: There are no data available.

Classification

Product/ingredient name	OSHA	IARC	ACGIH	NTP
Cement, Portland, chemicals	-	-	A4	-
Quartz	-	-	A2	Known to be a human carcinogen

Reproductive toxicity: There are no data available.

Teratogenicity: There are no data available.

Specific target organ toxicity (single exposure)

Name	Category	Route of Exposure	Target Organs
Calcium oxide	Category 3	Inhalation and skin contact	Respiratory tract irritation, skin irritation
Cement, Portland, chemicals	Category 3	Inhalation and skin contact	Respiratory tract irritation, skin irritation

#### **TABLE OF CONTENTS**

Name	Category	Route of Exposure	Target Organs
Quartz	Category 1	Inhalation	Respiratory tract and kidneys

**Aspiration hazard:** There are not data available.

Information on likely routes of exposure

Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects: Eye contact: Causes serious eye damage.

Inhalation: May cause respiratory irritation.

**Skin contact:** Causes severe burns. May cause an allergic skin reaction.

**Ingestion:** May cause burns to mouth, throat and stomach.

Symptoms related to the physical, chemical and toxicological characteristics:

**Eye contact:** Adverse symptoms may include the following: pain, watering, redness

Inhalation: Adverse symptoms may include the following: respiratory tract irritation, coughing

Skin contact: Adverse symptoms may include the following: pain or irritation, redness, blistering may occur,

skin burns, ulcerations and necrosis may occur

Ingestion: Adverse symptoms may include the following: stomach pains

Delayed and immediate effects and also chronic effects from short and long term exposure:

Short term exposure

Potential immediate effects: No known significant effects or critical hazards. Potential delayed effects: No known significant effects or critical hazards.

Long term exposure

Potential immediate effects: No known significant effects or critical hazards. Potential delayed effects: No known significant effects or critical hazards.

Potential chronic health effects:

**General:** Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. If sensitized to hexavalent chromium, a severe allergic dermal reaction may occur when subsequently exposed to very

low levels.

**Carcinogenicity:** Portland cement is not classifiable as a human carcinogen. Crystalline silica is considered a hazard by inhalation. IARC has classified crystalline silica as a Group 1 substance, carcinogenic to humans. This classification is based on the findings of laboratory animal studies (inhalation and implantation) and epidemiology studies that were considered sufficient for carcinogenicity. Excessive exposure to crystalline silica can cause silicosis, a non-cancerous lung disease.

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.

Developmental effects: No known significant effects or critical hazards.

Fertility effects: No known significant effects or critical hazards.

**Numerical measures of toxicity:** Acute toxicity estimates: There are no data available.

#### Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
Calcium oxide	Chronic NOEC 100 mg/L	Fish-Oreochromis niloticus-Juvenile	46 Days
	Fresh water	(Fledging, Hatchling, Weanling) no bioaccumulation	

Persistence and degradability: There are no data available.

Bio accumulative potential: There are no data available.

**Mobility in soil:** Soil/water partition coefficient (Koc): Not available.

Other adverse effects: No known significant effects or critical hazards, however, avoid release to the environment.

High pH (alkalinity) of product may be harmful to aquatic life.

# Section 13. Disposal considerations

**Disposal methods:**The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste

#### TABLE OF CONTENTS

disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Untreated waste should not be released to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe manner. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff, and contact with soil, waterways, drains and sewers.

# **Section 14. Transport information**

	DOT Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	None.	None.	None.
Additional information	-	-	-

Special precautions for user:

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure

that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:

Not available.

# Section 15. Regulatory information

U.S. Federal regulations: TSCA 6 final risk management: Chromium, ion (Cr6+)

United States inventory (TSCA 8b): Portland cements are considered to be statutory mixtures under

TSCA. CAS 65997-15-1 is included on the TSCA inventory.

Clean Water Act (CWA) 307: Chromium, ion (Cr6+)

CERCLA: This product is not listed as a CERCLA substance.

Clean Air Act Section 112 (b): Hazardous Air Pollutants (HAPs) — Not listed

Clean Air Act Section 602: Class I Substances — Not listed Clean Air Act Section 602: Class II Substances — Not listed DEA List I Chemicals: (Precursor Chemicals) — Not listed DEA List II Chemicals: (Essential Chemicals) — Not listed

**SARA 311/312** 

Classification: Immediate (acute) health hazard

Delayed (chronic) health hazard

Composition/information on ingredients

Name	%	Fire	Sudden release	Reactive	Immediate (acute)	Delayed (chronic) health
		Hazard	of pressure		health hazard	hazard
Calcium Oxide	A-B	No.	No.	No.	Yes.	No.
Quartz	< 0.2	No.	No.	No.	No.	Yes.
Chromium, ion (Cr6+)	< 0.1	No.	No.	No.	Yes.	Yes.
Nickel Compounds	< 0.1	No.	No.	No.	Yes.	Yes.
Lead (Organic & Inorganic)	< 0.1	No.	No.	No.	No.	Yes.

# Revision Date - 01.03/2022 TABLE OF CONTENTS Portland Cement

	Product name	CAS number	%
Form R-Reporting requirements	Chromium, ion (Cr6+)	8540-29-9	< 0.1
, , ,	Lead (Organic or Inorganic)	-	< 0.1
	Nickel Compounds	-	< 0.1
Supplier notification	Alternatively, if any of the compounds are not present, state:		
	This product does not contain any constituents listed under		
	SARA Title III Section 313.		

State regulations

Massachusetts: The following components are listed: cement, Portland, chemicals, limestone

**New York:** None of the components are listed.

**New Jersey:** The following components are listed: cement, Portland, chemicals, gypsum, limestone **Pennsylvania:** The following components are listed: cement, Portland, chemicals, gypsum, limestone

# California Prop. 65

WARNING: This product contains crystalline silica and chemicals (trace metals) known to the State of California to cause cancer, birth defects or other reproductive harm. California law requires the above warning in the absence of definitive testing to prove the defined risks do not exist.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Quartz	Yes.	No.	No.	No.
Chromium, ion (Cr6+)	Yes.	Yes.	0.001µg/day (inhalation)	8.2 micrograms/day (ingestion)
Nickel Compounds	No.	No.	No.	No.
Lead	Yes.	Yes.	15 μg/day (ingestion)	0.5 micrograms/day (inhalation)

# International regulations

International lists: Canadian Domestic Substances List (DSL): Portland cement is included on the DSL.

Mexico Inventory (INSQ): All components are listed or exempted.

# History Date of issue mm/dd/yyyy: 01/01/2020 Version: 1.1 Revised Section(s): Not applicable.

#### Notice to reader

While the information provided in this safety data sheet is believed to provide a useful summary of the hazards of Portland cement as it is commonly used, the sheet cannot anticipate and provide all of the information that might be needed in every situation. Inexperienced product users should obtain proper training before using this product. In particular, the data furnished in this sheet do not address hazards that may be posed by other materials mixed with Portland cement to produce Portland cement products. Users should review other relevant material safety data sheets before working with this Portland cement or working on Portland cement products, for example, Portland cement concrete.

SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE OR CONCERNING THE ACCURACY OF ANY INFORMATION PROVIDED BY GCC of America, Inc., except that the product shall conform to contracted specifications. The information provided herein was believed by the GCC of America, Inc. to be accurate at the time of preparation or prepared from sources believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information to comply with all laws and procedures applicable to the safe handling and use of product and to determine the suitability of the product for its intended use. Buyer's exclusive remedy shall be for damages and no claim of any kind, whether as to product delivered or for non-delivery of product, and whether based on contract, breach of warranty, negligence, or otherwise shall be greater in amount than the purchase price of the quantity of product in respect of which damages are claimed. In no event shall Seller be liable for incidental or consequential damages, whether Buyer's claim is based on contract, breach of warranty, negligence or otherwise.

# **Abbreviations**

ACGIH - American Conference of Governmental Industrial Hygienists

CAS — Chemical Abstract Service

CERCLA — Comprehensive Emergency Response and Comprehensive Liability Act

CFR — Code of Federal Regulations

DOT — Department of Transportation

GHS — Globally Harmonized System

HEPA — High Efficiency Particulate Air

IATA — International Air Transport Association

IARC — International Agency for Research on Cancer

IMDG — International Maritime Dangerous Goods

NIOSH — National Institute of Occupational Safety and Health

NOEC — No Observed Effect Concentration

NTP — National Toxicology Program

OSHA — Occupational Safety and Health Administration

PEL — Permissible Exposure Limit

REL — Recommended Exposure Limit

RQ — Reportable Quantity

SARA — Superfund Amendments and Reauthorization Act

SDS — Safety Data Sheet

TLV — Threshold Limit Value

TPQ — Threshold Planning Quantity

TSCA — Toxic Substances Control Act

TWA — Time-Weighted Average

UN — United Nations

QUAKER STATE® PEAK PERFORMANCE CONVENTIONAL MOTOR OIL - ALL GRADES

#### 1. PRODUCT AND COMPANY IDENTIFICATION

MSDS Number: 14938 Version Date: 07/16/02

Product Name: QUAKER STATE® PEAK PERFORMANCE CONVENTIONAL MOTOR OIL - ALL

**GRADES** 

**Product Use:** Engine oil

Synonyms: 5W-30, 10W-30, 10W-40, 20W-50, 15W-40

**Company Information** 

SOPUS Products P.O. Box 4427

Houston, TX 77210-4427

USA

**Phone Numbers** 

**Medical Emergency:** 1-800-546-6040

Transportation Emergency (USA): 1-800-424-9300

**Transportation Emergency (International):** 

1-703-527-3887 (Call Collect)

MSDS Assistance: 1-800-546-6227 Fax On Demand: 1-800-546-6227 Technical Assistance: 1-800-458-4998 Customer Service: 1-800-468-8397

Fax Number: 713-217-3181

**Internet Address:** www.MSDS.PZLQS.com

#### 2. COMPONENT INFORMATION

Component	CAS No.	Weight Percent	Hazardous
		Range	in Blend
HYDROTREATED HEAVY PARAFFINIC	64742-54-7	< 70	No
PETROLEUM DISTILLATES			
SOLVENT-DEWAXED HEAVY PARAFFINIC	64742-65-0	< 70	No
DISTILLATE			
DETERGENT/DISPERSANT	MIXTURE	5 - 10	No
VISCOSITY MODIFIER	9003-29-6	< 10	No
POUR POINT DEPRESSANT	MIXTURE	< 2	No

Under normal conditions of use or in a foreseeable emergency, this product does not meet the definition of a hazardous chemical when evaluated according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Other: No information available

#### 3. HAZARDS IDENTIFICATION

#### **Emergency and Hazards Overview**

CAUTION: Contains Petroleum Lubricant. Repeated skin contact can cause skin disorders.

ATTENTION: Used motor oil is a possible skin cancer hazard based on animal data. Repeated exposure to oil mist in excess of the OSHA limit (5mg/m3) can result in accumulation of oil droplets in pulmonary tissue.

NFPA Ratings: Health <u>1</u> Flammability <u>1</u> Reactivity <u>0</u>

Primary Route of Exposure: Skin X Inhalation - Eye X

#### **Health Effect Information**

**Eye Contact:** This product is practically non-irritating to the eyes upon direct contact. Based on testing of similar products and/or components.

# QUAKER STATE® PEAK PERFORMANCE CONVENTIONAL

QUAKER STATE® PEAK PERFORMANCE CONVENTIONAL MOTOR OIL - ALL GRADES

**Skin Contact:** Avoid skin contact. This product is minimally irritating to the skin upon direct contact. Based on testing of similar products and/or components. Prolonged or repeated contact may result in contact dermatitis which is characterized by dryness, chapping, and reddening. Prolonged or repeated contact may result in oil acne which is characterized by blackheads with possible secondary infection. Avoid prolonged and repeated skin contact with used motor oils. See Section 11 - Toxicological Information.

**Inhalation:** This product has a low vapor pressure and is not expected to present an inhalation hazard at ambient conditions. Caution should be taken to prevent aerosolization or misting of this product. On rare occasions, prolonged and repeated exposure to oil mist poses a ris k of pulmonary disease such as chronic lung inflammation. Signs of respiratory effects vary with concentration and length of exposure and include nasal discharge, sore throat, coughing, bronchitis, pulmonary edema and difficulty breathing. Shortness of breath and cough are the most common symptoms.

**Ingestion:** Do not ingest. This product is relatively non-toxic by ingestion. This product has laxative properties and may result in abdominal cramps and diarrhea. Exposure to a large single dose, or repeated smaller doses, may lead to lung aspiration, which can lead to lipid pneumonia or chronic lung inflammation. These are low-grade, chronic localized tissue reactions.

**Medical Conditions Aggravated by Exposure:** Drying and chapping may make the skin more susceptible to other irritants, sensitizers and disease.

Other: No information available

MSDS Number: 14938

#### 4. FIRST AID INFORMATION

**Eye Contact:** Immediately flush eyes with large amounts of water and continue flushing until irritation subsides. If material is hot, treat for thermal burns and seek immediate medical attention.

**Skin Contact:** No treatment is necessary under ordinary circumstances. Remove contaminated clothing. Wash contaminated area thoroughly with soap and water. If material is hot, submerge injured area in cold water. If victim is severely burned, remove to a hospital immediately.

**Inhalation:** This material has a low vapor pressure and is not expected to present an inhalation exposure at ambient conditions. If vapor or mist is generated when the material is heated, and the victim experiences signs of respiratory tract irritation, remove to fresh air.

**Ingestion:** No treatment is necessary under ordinary circumstances. Do not induce vomiting. If victim exhibits signs of lung aspiration such as coughing or choking, seek immediate medical assistance.

Notes to Physician: No information available

Other: No information available

#### 5. FIRE AND EXPLOSION INFORMATION

Flammable Properties

Flash Point: 415 F, 212.8 C Test Method: ASTM 3278 - Closed Cup

Flammable Limits in Air

**Upper Percent:** No data available **Lower Percent:** No data available

**Autoignition Temperature:** No data available **Test Method:** No information available

NFPA Classification: Class III-B combustible liquid

**Extinguishing Media:** Use dry chemical, foam, or carbon dioxide.

Page 2 of 8

QUAKER STATE® PEAK PERFORMANCE CONVENTIONAL

KER STATE® PEAK PERFORMANCE CONVENTIONAL Page 3 of 8
MOTOR OIL - ALL GRADES

#### **Fire Fighting Measures**

MSDS Number: 14938

**Special Fire Fighting Procedures and Equipment:** Water may be ineffective but can be used to cool containers exposed to heat or flame to prevent vapor pressure buildup and possible container rupture. Caution should be exercised when using water or foam as frothing may occur, especially if sprayed into containers of hot, burning liquid.

**Unusual Fire and Explosion Conditions:** Dense smoke may be generated while burning. Carbon monoxide, carbon dioxide, and other oxides may be generated as products of combustion.

Hazardous Combustion By-Products: None

Other: No information available

#### 6. ACCIDENTAL RELEASE MEASURES

**Personnel Safeguards:** Consult Health Effect Information in Section 3, Personal Protection Information in Section 8, Fire and Explosion Information in Section 5, and Stability and Reactivity Information in Section 10.

Regulatory Notifications: Notify appropriate authorities of spill.

**Containment and Clean up:** Contain spill immediately. Do not allow spill to enter sewers or watercourses. Absorb with appropriate inert material such as sand, clay, etc. Large spills may be picked up using vacuum pumps, shovels, buckets, or other means and placed in drums or other suitable containers.

Other: No information available

#### 7. HANDLING AND STORAGE INFORMATION

**Handling:** Fire extinguishers should be kept readily available. See NFPA 30 and OSHA 1910.106-Flammable and Combustible Liquids.

**Storage:** Do not transfer to unmarked containers. Store in closed containers away from heat, sparks, open flame, or oxidizing materials.

#### **Empty Container Warnings**

**Drums:** Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner, or properly disposed.

Plastic: Empty container may retain product residues.

Other: No information available

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION INFORMATION

#### **Exposure Limits and Guidelines**

This product does not contain any components with OSHA or ACGIH exposure limits.

#### **Personal Protective Equipment**

**Eye/Face Protection:** Eye protection is not required under conditions of normal use. If material is handled such that it could be splashed into eyes, wear plastic face shield or splash-proof safety goggles.

# QUAKER STATE® PEAK PERFORMANCE CONVENTIONAL MOTOR OIL - ALL GRADES

**Skin Protection:** No skin protection is required for single, short duration exposures. For prolonged or repeated exposures, use impervious clothing (boots, gloves, aprons, etc.) over parts of the body subject to exposure. If handling hot material, use insulated protective clothing (boots, gloves, aprons, etc.). Launder soiled clothes. Properly dispose of contaminated leather articles including shoes, which cannot be decontaminated.

**Respiratory Protection:** Respiratory protection is not required under conditions of normal use. If vapor or mist is generated when the material is heated or handled, use an organic vapor respirator with a dust and mist filter. All respirators must be NIOSH certified. Do not use compressed oxygen in hydrocarbon atmospheres.

**Personal Hygiene:** Consumption of food and beverage should be avoided in work areas where hydrocarbons are present. Always wash hands and face with soap and water before eating, drinking, or smoking.

#### **Engineering Controls / Work Practices**

MSDS Number: 14938

**Ventilation:** If vapor or mist is generated when the material is heated or handled, adequate ventilation in accordance with good engineering practice must be provided to maintain concentrations below the specified exposure or flammable limits.

**Other:** The OSHA permissible exposure limit (PEL) and ACGIH threshold limit value (TLV) for oil mist is 5 mg/m3. The ACGIH short-term exposure limit (STEL) for oil mist is 10 mg/m3.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Amber to dark amber			
Odor: Hydrocarbon - mild	Vapor Pressure: No data available		
Physical state: Liquid	Vapor Density (air=1): No data available		
<b>pH:</b> No data available	Percent Volatile by Volume: No data available		
<b>Boiling Point:</b> No data available	Volatile Organic Content: No data available		
Melting Point: No data available	Molecular Weight: No data available		
<b>Specific Gravity:</b> 0.88 - 0.9 @ 16 C / 60 F	Average Carbon Number: No data available		
<b>Pour Point:</b> -15 F, -26.1 C	Viscosity @ 100 F: No data available		
	Viscosity @ 40 C: No data available		
Solubility in Water: Negligible in water			
Octanol / Water Coefficient: Log K <sub>ow</sub> = No data available			

#### 10. STABILITY AND REACTIVITY INFORMATION

Chemical Stability: Stable

**Conditions to Avoid:** High heat and open flames.

**Incompatible Materials to Avoid:** May react with strong oxidizing agents.

Other: No information available

#### 11. TOXICOLOGICAL INFORMATION

Primary Eye Irritation: No information available

Primary Skin Irritation: No information available

Acute Dermal Toxicity: No information available

# QUAKER STATE® PEAK PERFORMANCE CONVENTIONAL MOTOR OIL - ALL GRADES

**Subacute Dermal Toxicity:** No information available

Dermal Sensitization: No information available

**Inhalation Toxicity:** No information available

Inhalation Sensitization: No information available

Oral Toxicity: No information available

MSDS Number: 14938

Mutagenicity: No information available

Carcinogenicity: The International Agency for Research on Cancer (IARC) has concluded that there is inadequate data to evaluate the carcinogenicity to experimental animals of this class of product. IARC has concluded there is sufficient evidence that used gasoline-engine motor oils produce skin tumors in experimental animals. Also, IARC has determined this class of products belongs to Group 3-"not classifiable as to its carcinogenicity to humans".

Reproductive and Developmental Toxicity: No information available

**Teratogenicity:** No information available

Immunotoxicity: No information available

Neurotoxicity: No information available

Other: No information available

#### 12. ECOLOGICAL INFORMATION

Aquatic Toxicity: No information available

Terrestrial Toxicity: No information available

**Chemical Fate and Transport:** No information available

Other: No information available

#### 13. DISPOSAL INFORMATION

Regulatory Information: All disposals must comply with federal, state, and local regulations. The material, if spilled or discarded, may be a regulated waste. Refer to state and local regulations. Caution! If regulated solvents are used to clean up spilled material, the resulting waste mixture may be regulated. Department of Transportation (DOT) regulations may apply for transporting this material when spilled.

**Waste Disposal Methods:** Waste material may be landfilled or incinerated at an approved facility. Materials should be recycled if possible.

Other: No information available

Page 5 of 8

QUAKER STATE® PEAK PERFORMANCE CONVENTIONAL Page 6 of 8

QUAKER STATE® PEAK PERFORMANCE CONVENTIONAL MOTOR OIL - ALL GRADES

#### 14. TRANSPORTATION INFORMATION

U.S. Department of Transportation (DOT)
Highway / Rail (Bulk): Not Regulated
Highway / Rail (Non-Bulk): Not Regulated

For US shipments, US DOT law requires the shipper to determine the proper shipping description of the material that is being shipped. The shipping information and description contained in this section may not be suitable for all shipments of this material, but may help the shipper determine the proper shipping description for a particular shipment.

# **International Information**

MSDS Number: 14938

Vessel: IMDG Regulated:--IMDG Not Regulated:XAir: ICAO Regulated:--ICAO Not Regulated:X

Other: No information available

#### 15. Regulatory Information

<u>Regulatory Lists Searched</u>: The components listed in Section 2 of this MSDS were compared to substances that appear on the following regulatory lists. Each list is numerically identified. See Regulatory Search Results below.

**Health & Safety:** 10 - IARC carcinogen, 11 - NTP carcinogen, 12 - OSHA carcinogen, 15 - ACGIH TLV, 16 - OSHA PEL, 17 - NIOSH exposure limit, 20 - US DOT Appendix A, Hazardous substances, 22 - FDA 21 CFR Total food additives, 23 - NFPA 49 or 325

**Environmental:** 30 - CAA 1990 Hazardous air pollutants, 31 - CAA Ozone depletors, 33 - CAA HON rule, 34 - CAA Toxic substance for accidental release prevention, 35 - CAA Volatile organic compounds (VOC's) in SOCMI, 41 - CERCLA / SARA Section 302 extremely hazardous substances, 42 - CERCLA / SARA Section 313 emissions reporting, 43 - CWA Hazardous substances, 44 - CWA Priority pollutants, 45 - CWA Toxic pollutants, 46 - EPA Proposed test rule for hazardous air pollutants, 47 - RCRA Basis for listing - Appendix VII, 48 - RCRA waste, 49 - SDWA - (S)MCLs

**International:** 50 - Canada - WHMIS Classification of substance, 54 - Mexico - Drinking water - ecological criteria, 55 - Mexico - Wastewater discharges, 56 - US -TSCA Section (12)(b) - export notification

**State Lists:** 60 - CA - Proposition 65, 61 - FL - Substances, 62 - MI - Critical materials, 63 - MA - RTK, 64 - MA - Extraordinarily hazardous substances, 65 - MN - Hazardous substances, 66 - PA - RTK, 67 - NJ - RTK, 68 - NJ - Environmental hazardous substances, 69 - NJ - Special hazardous substances

**Inventories:** 80 - Canada - Domestic substances, 81 - European - EINECS, 82 - Japan - ENCS, 83 - Korea - Existing and evaluated chemical substances, 84 - US - TSCA , 85 - China Inventory

#### **Regulatory Search Results:**

HYDROTREATED HEAVY PARAFFINIC PETROLEUM DISTILLATES: 80, 81, 83, 84, 85 SOLVENT-DEWAXED HEAVY PARAFFINIC DISTILLATE: 80, 81, 83, 84, 85 VISCOSITY MODIFIER: 35, 80, 83, 84, 85

**U.S. TSCA Inventory:** All components of this material are on the US TSCA Inventory.

**SARA Section 313:** This product is not known to contain any SARA, Title III, Section 313 Reportable Chemicals at or greater than 1.0% (0.1% for carcinogens).

QUAKER STATE® PEAK PERFORMANCE CONVENTIONAL MOTOR OIL - ALL GRADES

IARC: No information available

SARA 311 / 312 Categories

Acute: -- Chronic: -- Fire: -- Pressure: -- Reactive: --

Not Regulated: X

MSDS Number: 14938

#### **Canadian WHMIS Classification**

Not a controlled substance under WHMIS

#### **European Union Classification**

#### **Hazard Symbols:**

No classification recommended

**Risk Phrases:** 

No classification recommended

**Safety Phrases:** 

No classification recommended

Other: No information available

#### 16. OTHER INFORMATION

#### Health and Environmental Label Language

WARNING: Continuous contact with used gasoline engine oils has caused skin cancer in animal tests.

ATTENTION: Prolonged or repeated skin contact may cause oil acne or dermatitis. Repeated exposure to oil mist in excess of the OSHA limit (5mg/m3 can result in accumulation of oil droplets in pulmonary tissue.

Precautionary Measures: Avoid prolonged or repeated contact with eyes, skin and clothing. Avoid generation and inhalation of oil mists.

First Aid: Skin Contact: Wash skin with soap and water. Launder soiled clothes and discard oil-soaked shoes. If irritation persists seek medical attention. Eye Contact: Flush with water. If irritation persists seek medical attention. Ingestion: Do not induce vomiting. In general, no treatment is necessary unless large quantities of product are ingested. If discomfort persists seek medical assistance.

Instructions in Case of Fire or Spill: In case of fire, use water fog, foam, dry chemical or carbon dioxide. Water spray may be ineffective, but can be used to cool containers. Do not use a direct stream of water. Material will float and can be reignited on surface of water.

Spill or Leak: Dike and contain spill. Do not use water; soak up with absorbent material such as clay, sand or other suitable material. Place in non-leaking container and seal tightly for proper disposal.

Contains: highly refined petroleum distillate, mixture; zinc compounds, mixture; polymer additives, mixture.

KEEP OUT OF REACH OF CHILDREN. (If intended for retail also)

#### MSDS Revisions

**Previous Version Date:** 06/01/01

#### **Previous Version Information**

Revised Section 1 - Product Name

Page 7 of 8

MSDS Number: 14938 QUAKER STATE® PEAK PERFORMANCE CONVENTIONAL MOTOR OIL - ALL GRADES

Other

No information available

Prepared By:

SOPUS Products P.O. Box 4427 Houston, TX 77210-4453 USA

Disclaimer of Warranty: The information contained herein is based upon data and information available to us, and reflects our best professional judgment. This product may be formulated in part with components purchased from other companies. In many instances, especially when proprietary or trade secret materials are used, SOPUS Products must rely upon the hazard evaluation of such components submitted by that product's manufacturer or importer. No warranty of merchantability, fitness for any use, or any other warranty is expressed or implied regarding the accuracy of such data or information, the results to be obtained from the use thereof, or that any such use do not infringe any patent. Since the information contained herein may be applied under conditions of use beyond our control and with which we may be unfamiliar, we do not assume responsibility for the results of such application. This information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the material for his particular use.

Page 8 of 8

2/10/2023



**CEMENT & CONCRETE PRODUCTS™** 

# **C4: Portland Cement Based Concrete Products**

SAFETY DATA SHEET (Complies with OSHA 29 CFR 1910.1200)

#### **SECTION I: PRODUCT IDENTIFICATION**

The QUIKRETE® Companies 5 Concourse Parkway, Suite 1900 Atlanta, GA 30083

Emergency Telephone Number INFOTRAC (800) 535-5053 Information Telephone Number (800) 282-5828

Revision: Feb-23

SDS C4

QUIKRETE® Product Name	Item #(s)
MORTAR MIX	1102
VIEUX CARRE MORTAR MIX	1102-86
ALL-STAR MORTAR MIX	1122
MASON MIX	1136
ALL-STAR MASON MIX	1136
QUIKRETE® PRO-FINISH BLENDED MASON MIX	1136-58
ALL-STAR VENEER STONE MORTAR	1137
ROOF TILE MORTAR	1140
LIGHTWEIGHT ROOF TILE MORTAR	1140
VENEER STONE MORTAR	1137
POLYMER MODIFIED VENEER STONE MORTAR	1137-85
CSC-4	1191-84
TUCKPOINTING MORTAR – ZIP AND MIX	1251-15
GLASS BLOCK MORTAR	1610
K-1 Mortar	210280
LIANDIODETE MODTAD MIV	

HANDICRETE MORTAR MIX NATURAL STONE MORTAR

RED-E-CRETE MORTAR

BULK MASONRY MORTARS: MIX 101M, 102 S, 104 N, 112 M, 112 N, 112 S, 122 M, 122 N, 122 S, 132 S, 142, 201 M, 202 PLN, 202 S, 203 PLS, 203 S, 203 N, 204 N, 205 P/L type O, 203 M, 212 M, 212 N, 212 S, 222 M, 222 S, 253 S, 294 N

Product Use: Masonry Mortars for construction with block, brick, veneer stones, etc.

See most current revision of this document at www.QUIKRETE.com.

#### **SECTION II - HAZARD IDENTIFICATION**

Hazard-determining components of labeling: Silica, Portland cement

SDS C4 QUIKRETE Companies, LLC



#### **CEMENT & CONCRETE PRODUCTS**

# 2.1 Classification of the substance or mixture

Carcinogen – Category 1A
Skin Corrosion – Category 1B
Skin Sensitization – Category 1B
Specific Target Organ Toxicity Repeat Exposure – Category 1
Specific Target Organ Toxicity: Single Exposure – Category 3

# 2.2a Signal word DANGER!

#### 2.2b Hazard Statements

May cause cancer through chronic inhalation
Causes severe skin burns and serious eye damage
May cause an allergic skin reaction
Causes damage to lungs through prolonged or repeated inhalation
May cause respiratory irritation

# 2.2c Pictograms



# 2.2d Precautionary statements

Do not handle until all safety precautions have been read and understood.

Wear impervious gloves, such as nitrile. Wear eye protection, protective clothing and rubber boots. Do not eat, drink or smoke when using this product.

Wash thoroughly after handling.

Use only in a well-ventilated area.

Do not breathe dust.

If swallowed: Rinse mouth. Do NOT induce vomiting.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If on skin (or hair): Remove immediately all contaminated clothing and wash before re-use. Rinse skin or hair with water.

If significant skin irritation or rash occurs: get medical advice or attention.

# Immediately seek medical advice if symptoms are significant or persist.

SDS C4 QUIKRETE Companies, LLC

2/10/2023



#### CEMENT & CONCRETE PRODUCTS"

Store in a well-ventilated place. Keep container tightly closed. Dispose of contents/containers in accordance with all regulations.

#### 2.3 Additional Information

The Portland cement in this product can cause serious, potentially irreversible damage to skin, eye, respiratory and digestive tracts due to chemical (caustic) burns, including third degree burns. Burns from Portland cement may not cause immediate pain or discomfort. You cannot rely on pain to alert you to cement burns. Portland cement can cause dermatitis or sensitization. Therefore precautions must be taken to prevent all contact with Portland cement. Cement burns can become worse even after contact has ended. If there is contact with this product, immediately remove all product from body and thoroughly rinse with water. If you experience or suspect a cement burn or inflammation you should immediately see a health care professional.

Skin burns and irritation may be caused by brief exposure, though often are caused by extended exposure of 15 minutes, an hour, or longer. Interaction of Portland cement with water or sweat releases a caustic solution which produces the burns or irritation. Any extended exposure should be treated as though a burn has occurred until determined otherwise.

Skin contact with Portland cement can also cause inflammation of the skin, referred to as dermatitis. Signs and symptoms of dermatitis can include itching, redness, swelling, blisters, scaling, and other changes in the normal condition of the skin. Signs and symptoms of burns include the above and whitening, yellowing, blackening, peeling or cracking of skin.

The Portland cement in this product may cause allergic contact dermatitis in sensitized individuals. This overreaction of the immune system can lead to severe inflammation. Sensitization may result from a single exposure to the low levels of Cr (VI) in Portland cement or repeated exposures over months or years. Sensitization is long lasting and, after sensitization, even very small quantities can trigger the dermatitis. Sensitization is uncommon. Individuals who experience skin problems, including seemingly minor ones, are advised to seek medical attention.

2.3a HNOC - Hazards not otherwise classified: Not applicable

2.3b Unknown Acute Toxicity: None

SECTION III - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION					
Hazardous Components	CAS No.	% by Weight			
Sand, Silica, Quartz	14808-60-7	40-70*			
Portland Cement	65997 15 1	10-30*			
Lime	01305-62-0	5-10*			
SDS C4	QUIKRETE Companies, LLC		2/10/2023		



#### **CEMENT & CONCRETE PRODUCTS**"

Alternately to Lime, May Contain:

Calcium Carbonate 1317-65-3 5-10\* Calcium Sulfate Dihydrate 7778-18-9 1-5\*

# **SECTION IV - FIRST AID MEASURES**

# 4.1 Description of the first-aid measures

# General information:

**After inhalation:** Remove person to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration. In case of unconsciousness, place patient stably in side position for transportation.

**After skin contact:** Wash skin with cool water and pH-neutral soap or a mild detergent. If significant skin irritation or rash occurs: get medical advice or attention.

**After eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**After swallowing:** Do not induce vomiting. If conscious, have the victim drink plenty of water and call a physician immediately. Never give anything by mouth to an unconscious person.

# 4.2 Most important symptoms/effects, acute and delayed

**Inhalation:** May cause respiratory tract irritation. Causes damage to organs through prolonged or repeated inhalation. This product contains crystalline silica. Prolonged or repeated inhalation of respirable silica from this product can cause silicosis.

**Skin contact:** The Portland cement in this product can cause serious, potentially irreversible damage to skin, eye, respiratory and digestive tracts due to chemical (caustic) burns, including third degree burns. Burns from Portland cement may not cause immediate pain or discomfort. You cannot rely on pain to alert you to cement burns. Portland cement can cause dermatitis or sensitization. Therefore precautions must be taken to prevent all contact with Portland cement. Cement burns can become worse even after contact has ended. If there is contact with this product, immediately remove all product from body and thoroughly rinse with water. If you experience or suspect a cement burn or inflammation you should immediately see a health care professional.

Skin burns and irritation may be caused by brief exposure, though often are caused by extended exposure of 15 minutes, an hour, or longer. Interaction of Portland cement with water or sweat releases a caustic solution which produces the burns or irritation. Any extended exposure should be treated as though a burn has occurred until determined otherwise.

QUIKRETE Companies, LLC

2/10/2023

<sup>\*</sup>The concentrations ranges are provided due to batch-to-batch variability. None of the constituents of this material are of unknown toxicity.



#### CEMENT & CONCRETE PRODUCTS"

Skin contact with Portland cement can also cause inflammation of the skin, referred to as dermatitis. Signs and symptoms of dermatitis can include itching, redness, swelling, blisters, scaling, and other changes in the normal condition of the skin. Signs and symptoms of burns include the above and whitening, yellowing, blackening, peeling or cracking of skin.

The Portland cement in this product may cause allergic contact dermatitis in sensitized individuals. This overreaction of the immune system can lead to severe inflammation. Sensitization may result from a single exposure to the low levels of Cr (VI) in Portland cement or repeated exposures over months or years. Sensitization is long lasting and, after sensitization, even very small quantities can trigger the dermatitis. Sensitization is uncommon. Individuals who experience skin problems, including seemingly minor ones, are advised to seek medical attention.

**Eye Contact:** Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

**Ingestion:** May be harmful if swallowed. Ingestion may cause discomfort and/or distress, nausea or vomiting.

4.3 Indication of immediate medical attention and special treatment needed:

Immediately seek medical advice if symptoms are significant or persist.

#### **SECTION V - FIRE FIGHTING MEASURES**

- **5.1 Flammability of the Product:** Non-flammable and non-combustible
- **5.2 Suitable extinguishing agents:** Treat for surrounding material
- 5.3 Special hazards arising from the substance or mixture: None
- 5.3a Products of Combustion: None
- **5.3b Explosion Hazards in Presence of Various Substances:** Non-explosive in presence of shocks

#### **SECTION VI – ACCIDENTAL RELEASE MEASURES**

**6.1 Personal precautions, protective equipment and emergency procedures:** Wear personal protective equipment (See section VIII). Keep unprotected persons away.

#### 6.2 Methods and material for containment and cleaning up:

Do not allow to enter sewers/ surface or ground water. Dispose of unwanted materials and containers properly in accordance with all regulations.

#### SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND STORAGE

QUIKRETE Companies, LLC



## 7.1 Handling

**Precautions for safe handling:** Ensure good ventilation/exhaustion at the workplace. DO NOT BREATHE DUST. In dusty environments, the use of an OSHA, MSHA or NIOSH approved respirator and tight fitting goggles is recommended. Wear appropriate PPE (See section 8). Do not mix with other chemical products, except as indicated by the manufacturer. Do not get in eyes, on skin or clothing. Good housekeeping is important to prevent accumulation of dust.

## 7.2 Storage

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

**Further information about storage conditions:** Keep out of the reach of children. Keep container tightly closed and prevent exposure to humidity. Do not allow water to contact the product until time of use to preserve product utility.

SECTION VIII - EXPOSURE CONTROL MEASURES / PERSONAL PROTECTION

8.1 Components with limit values that require monitoring at the workplace:						
Hazardous Components	CAS No.	PEL (OSHA) mg/M <sup>3</sup>	TLV (ACGIH) mg/M <sup>3</sup>			
Silica Sand, crystalline	14808-60-7	0.05	0.025 (resp)			
Portland Cement	65997-15-1	5 (resp) 15 (total)	10 (resp)			
Lime	01305-62-0	5	5			

5 (resp) 15 (total)

## **8.2 Exposure Controls**

Pulverized Limestone

Use ventilation adequate to keep exposures below recommended exposure limits.

01317-65-3

## 8.3 General protective and hygienic measures

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

# 8.3a Personal protective equipment

## Protection of hands and feet:

Wear gloves of adequate length to offer appropriate skin protection from splashes. Nitrile, Butyl and PVC gloves have been found to offer adequate protection for incidental contact. Wear rubber boots when stepping in concrete. You cannot rely on pain to alert you to cement burns. Portland cement can cause dermatitis or sensitization.

## Eye protection:

Wear approved eye protection (properly fitted dust- or splash-proof chemical safety glasses.

SDS C4 QUIKRETE Companies, LLC

2/10/2023

10 (resp)



## Respiratory protection:

A NIOSH-approved dust mask or filtering face piece is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Respirators should be selected by and used under the direction of a trained health and safety professional, following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2).

## **SECTION IX - PHYSICAL/CHEMICAL CHARACTERISTICS**

**General Information** 

**Appearance** Form: Granular Solid

Color: Gray to gray-brown colored

Odor: None

pH-value at 20°C (68 °F): 13 (10%)
Boiling point/Boiling range: Not applicable
Flash point: Not applicable

**Auto igniting:** Product is not self-igniting

Vapor pressure at 21°C (70°F) Not available Density at 25°C (77°F): 2.6 to 3.15

Solubility in / Miscibility with

Water: Insoluble VOC content: 0 g/L VOC

#### **SECTION X – STABILITY AND REACTIVITY**

#### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

## 10.2 Chemical stability

Stable under normal storage conditions. Keep in dry storage.

# 10.3 Possibility of hazardous reaction

No dangerous reaction known under conditions of normal use.

## 10.4 Thermal decomposition / conditions to be avoided

No decomposition if used according to specifications.

## 10.5 Incompatible materials

Contact of silica with powerful oxidizing agents such as fluorine, chlorine trifluoride, manganese trioxide, or oxygen difluoride may cause fires

# 10.6 Hazardous Decomposition or By-products

Silica will dissolve in Hydrofluoric Acid and produce a corrosive gas – silicon tetrafluoride.

#### SECTION XI – TOXICOLOGICAL INFORMATION

QUIKRETE Companies, LLC



**11.1 Exposure Routes:** Skin contact, skin adsorption, eye contact, inhalation, or ingestion.

## 11.2 Symptoms related to physical/chemical/toxicological characteristics:

**Inhalation:** May cause respiratory tract irritation. Causes damage to organs through prolonged or repeated exposure. This product contains crystalline silica. Prolonged or repeated inhalation of respirable silica from this product can cause silicosis.

**Skin contact:** Causes skin irritation. Handling can cause dry skin, discomfort, irritation, and dermatitis. May cause sensitization by skin contact. Product becomes extremely alkaline when exposed to moisture, and can cause alkali burns and affect the mucous membranes.

**Eye Contact:** Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

**Ingestion:** Harmful if swallowed. Ingestion may cause discomfort and/or distress, nausea or vomiting.

# 11.3 Delayed, immediate and chronic effects of short-term and long-term exposure Short Term

Skin Corrosion/Irritation: Causes severe skin burns.

Serious Eye Damage/Irritation: Causes severe eye damage.

Respiratory Sensitization: Not available

Skin Sensitization: May cause an allergic skin reaction.

Specific Target Organ Toxicity-Single Exposure: (Category 3) May cause respiratory

irritation.

Aspiration Hazard: Not available

# **Long Term**

Carcinogenicity: May cause cancer through chronic inhalation.

Germ Cell Mutagenicity: Not available Reproductive Toxicity: Not available

Specific Target Organ Toxicity- Repeated Exposure: (Category 1) Causes damage to lungs

through prolonged/repeated exposure

Synergistic/Antagonistic Effects: Not available.

#### **SECTION XII - ECOLOGICAL INFORMATION**

#### 12.1 Ecotoxicity

May cause long-term adverse effects to the aquatic environment. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or un-neutralized

SDS C4 QUIKRETE Companies, LLC



## 12.2 Persistence and degradability

No further relevant information available.

## 12.3 Bioaccumulative potential:

No further relevant information available.

## 12.4 Mobility in soil

No further relevant information available.

#### 12.5 Other Adverse Effects

No further relevant information available.

## **SECTION XIII - DISPOSAL CONSIDERATIONS**

## 13.1 Waste Disposal Method

The packaging and material may be land filled; however, material should be covered to minimize generation of airborne dust. This product is <u>not</u> classified as a hazardous waste under the authority of the RCRA (40CFR 261) or CERCLA (40CFR 117&302). Disposal must be made in accordance with local, state and federal regulations.

## 13.2 Other disposal considerations

## Uncleaned packaging

**Recommendation:** Disposal must be made in accordance with local, state and federal regulations.

**Recommended cleansing agent:** Water, if necessary with cleansing agents.

SECTION XIV - TRANSPORT INFORMATION					
DOT (U.S.) TDG (Canada)					
UN-Number	Not Regulated	Not Regulated			
UN proper shipping name	Not Regulated	Not Regulated			
Transport Hazard Class(es)	Not Regulated	Not Regulated			
Packing Group (if applicable)	Not Regulated	Not Regulated			

## 14.1 Environmental hazards:

Not Available

# 14.2 Transport in bulk according to Annex II of Marpol 73/78 and the IBC Code

Not available

# 14.3 Special precautions for user

Do not handle until all safety precautions have been read and understood.

SDS C4 QUIKRETE Companies, LLC



#### **SECTION XV – OTHER REGULATORY INFORMATION**

# 15.1 Safety, Health and Environmental Regulations/Legislations specific for the chemical

#### Canada

**WHMIS Classification:** Considered to be a hazardous material under the Hazardous Products Act as defined by the Controlled Products Regulations and subject to the requirements of Health Canada's Workplace Hazardous Material Information (WHMIS). This document complies with the WHMIS requirements of the Hazardous Products Act (HPA) and the CPR.

#### 15.2 US Federal Information

## SARA 302/311/312/313 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302, 311, 312 or 313.

**RCRA:** Crystalline silica (quartz) is not classified as a hazardous waste under the Resource Conservation and Recovery Act, or its regulations, 40 CFR §261 et seq.

**CERCLA:** Crystalline silica (quartz) is not classified as a hazardous substance under regulations of the Comprehensive Environmental Response Compensation and Liability Act (CERCLA), 40 CFR §302.

Emergency Planning and Community Right to Know Act (SARA Title III): Crystalline silica (quartz) is not an extremely hazardous substance under Section 302 and is not a toxic chemical subject to the requirements of Section 313.

**FDA:** Silica is included in the list of substances that may be included in coatings used in food contact surfaces, 21 CFR §175.300(b)(3)(xxvi).

**NTP:** Respirable crystalline silica, primarily quartz dusts occurring in industrial and occupational settings, is classified as Known to be a Human Carcinogen.

**OSHA Carcinogen:** Crystalline silica (quartz) is not listed.

# 15.3 State Right to Know Laws

California Prop. 65 Components

**WARNING:** This product can expose you to chemicals including crystalline silica which is known to the State of California to cause cancer and Portland cement which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

California Inhalation Reference Exposure Level (REL): California established a chronic REL of 3 µg for silica (crystalline, respirable). A chronic REL is an airborne level of a

QUIKRETE Companies, LLC



substance at or below which no adverse health effects are anticipated in individuals indefinitely exposed to the substance at that level.

**Massachusetts Toxic Use Reduction Act:** Silica, crystalline (respirable size, <10 microns) is "toxic" for purposes of the Massachusetts Toxic Use Reduction Act.

#### 15.4 Global Inventories

**DSL** All components of this product are on the Canadian DSL list.

**TSCA No.:** Crystalline silica (quartz) appears on the EPA TSCA inventory under the CAS No. 14808-60-7. All constituents are listed in the TSCA inventory.

#### **SECTION XVI – OTHER INFORMATION**

Last Updated: February 10, 2023

**NOTE:** The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to silica contained in our products.

Prepared by The QUIKRETE Companies, LLC

**End of SDS** 



# **C6: Portland Cement Based Concrete Products**

# SAFETY DATA SHEET (Complies with OSHA 29 CFR 1910.1200)

## **SECTION I: PRODUCT IDENTIFICATION**

The QUIKRETE® Companies 5 Concourse Parkway, Suite 1900 Atlanta, GA 30328

Emergency Telephone Number INFOTRAC (800) 535-5053 Information Telephone Number (800) 282-5828

Revision: Feb-23

SDS C6

QUIKRETE® Product Name		Item #(s)
Fast-Setting Concrete Mix		1004-50, -60
All-Star Fast Setting Concrete Mix		1004-50
Commercial Grade FastSet <sup>™</sup> Concrete	e Mix	1004-51
Post Haste		1004-65
Q-MAX Pro Concrete Mix		1004-81
Commercial Grade Fast Setting Pro Co	oncrete Mix	1004-84
All-Star 10 Minute Instant Post Mix		1005-51
Fence & Post Mix		1105-30
FastSet™ Water-Stop Cement –Zip & N	Лix	1121-15
Commercial Grade FastSet <sup>™</sup> Cement		1124-92
Hydraulic Water Stop		1126-00
Concrete Resurfacer		1131-40
ReCap Concrete Resurfacer		1131-47
ReCap Concrete Resurfacer – Trowel	Grade	1131-46
Multipurpose Concrete Resurfacer		1131-45
Bonded Topping Mix		1133-04, -18
FastSet <sup>™</sup> Stucco Patch		1139-92
Architectural Finish		1220-55
Quick Setting Cement		1240
Commercial Grade FastSet™ Repair M	lortar – Zip And Mix	1241
ProFinish FastFinish <sup>™</sup> Repair Mortar		1241-23, -24
Commercial Grade FastSet™ Repair M	lortar	1241-60
Polymer Modified Structural Concrete -	- Extended Set	1242-85
Commercial Grade FastSetTM Polyme	r Modified DOT Mix	1244-54
Commercial Grade FastSet® Polymer	Modified DOT Mix – Extended	1244-86
Commercial Grade FastSet <sup>™</sup> DOT Mix		1244-56
Commercial Grade FastSet™ DOT Dec	ck Repair – Polymer Modified	1244-58
Commercial Grade FastSet™ DOT Mix	- Extended	1244-81
Exterior Use Anchoring Cement		1245-81
Commercial Grade FastSet <sup>™</sup> Non-Shr	nk Grout	1585-09, -20, -50
SDS C6	QUIKRETE Companies, LLC	2/10/2023



ProFinish FastFinish<sup>™</sup> Non-Shrink Grout Commercial Grade FastSet<sup>™</sup> All-Crete Mix 801 FastSet<sup>™</sup> DOT PM Overlay Rapid Road Repair – CA Rapid Road Repair – CA Extended 1585-27, -28 1585-59 NR801552/80801552 1242-56 1242-83

Product Use: Portland cement-based, rapid-setting materials for general construction or repair.

See most current revision of this document at www.QUIKRETE.com.

#### **SECTION II - HAZARD IDENTIFICATION**

**Hazard-determining components of labeling:** Silica, Portland cement **2.1 Classification of the substance or mixture** 

Carcinogen – Category 1A
Skin Corrosion – Category 1B
Skin Sensitization – Category 1B
Specific Target Organ Toxicity Repeat Exposure – Category 1
Specific Target Organ Toxicity: Single Exposure – Category 3

## 2.2a Signal word DANGER!

#### 2.2b Hazard Statements

May cause cancer through chronic inhalation
Causes severe skin burns and serious eye damage
May cause an allergic skin reaction
Causes damage to lungs through prolonged or repeated inhalation
May cause respiratory irritation

## 2.2c Pictograms



## 2.2d Precautionary statements

Do not handle until all safety precautions have been read and understood.

Wear impervious gloves, such as nitrile. Wear eye protection, protective clothing and rubber boots. Do not eat, drink or smoke when using this product.

QUIKRETE Companies, LLC



Wash thoroughly after handling.

Use only in a well-ventilated area.

Do not breathe dust.

If swallowed: Rinse mouth. Do NOT induce vomiting.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

If on skin (or hair): Remove immediately all contaminated clothing and wash before re-use. Rinse

skin or hair with water.

If significant skin irritation or rash occurs: get medical advice or attention.

Immediately seek medical advice if symptoms are significant or persist.

Store in a well-ventilated place. Keep container tightly closed.

Dispose of contents/containers in accordance with all regulations.

#### 2.3 Additional Information

The Portland cement in this product can cause serious, potentially irreversible damage to skin, eye, respiratory and digestive tracts due to chemical (caustic) burns, including third degree burns. Burns from Portland cement may not cause immediate pain or discomfort. You cannot rely on pain to alert you to cement burns. Therefore, precautions must be taken to prevent all contact with Portland cement. Cement burns can become worse even after contact has ended. If there is contact with this product, immediately remove all product from body and thoroughly rinse with water. If you experience or suspect a cement burn or inflammation you should immediately see a health care professional.

Skin burns and irritation may be caused by brief exposure, though often are caused by extended exposure of 15 minutes, an hour, or longer. Interaction of Portland cement with water or sweat releases a caustic solution which produces the burns or irritation. Any extended exposure should be treated as though a burn has occurred until determined otherwise.

Skin contact with Portland cement can also cause inflammation of the skin, referred to as dermatitis. Signs and symptoms of dermatitis can include itching, redness, swelling, blisters, scaling, and other changes in the normal condition of the skin. Signs and symptoms of burns include the above and whitening, yellowing, blackening, peeling or cracking of skin.

The Portland cement in this product may cause allergic contact dermatitis in sensitized individuals. This overreaction of the immune system can lead to severe inflammation. Sensitization may result from a single exposure to the low levels of Cr(VI) in Portland cement or repeated exposures over months or years. Sensitization is long lasting and, after sensitization, even very small quantities can trigger the dermatitis. Sensitization is uncommon. Individuals who experience skin problems, including seemingly minor ones, are advised to seek medical attention.

QUIKRETE Companies, LLC

2.3a HNOC – Hazards not otherwise classified: Not applicable

2.3b Unknown Acute Toxicity: None

SECTION III - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION				
Hazardous Components	CAS No.	% by Weight		
Sand, Silica, Quartz	14808-60-7	40-70*		
Portland Cement	65997 15 1	10-30*		
Calcium Sulfoaluminate	65997-16-2	10-30*		
Calcium Aluminate	12042-68-1	5-10*		
Calcium Sulfate	10101-41-4	1-5*		
Limestone Dust	01317-65-3	1-5*		

<sup>\*</sup>The concentrations ranges are provided due to batch-to-batch variability. None of the constituents of this material are of unknown toxicity.

#### **SECTION IV - FIRST AID MEASURES**

# 4.1 Description of the first-aid measures

## General information:

SDS C6

**After inhalation:** Remove person to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration. In case of unconsciousness, place patient stably in side position for transportation.

**After skin contact:** Wash skin with cool water and pH-neutral soap or a mild detergent. If significant skin irritation or rash occurs: get medical advice or attention.

**After eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**After swallowing:** Do not induce vomiting. If conscious, have the victim drink plenty of water and call a physician immediately. Never give anything by mouth to an unconscious person.

## 4.2 Most important symptoms/effects, acute and delayed

**Inhalation:** May cause respiratory tract irritation. Causes damage to organs through prolonged or repeated inhalation. This product contains crystalline silica. Prolonged or repeated inhalation of respirable silica from this product can cause silicosis.

**Skin contact:** The Portland cement in this product can cause serious, potentially irreversible damage to skin, eye, respiratory and digestive tracts due to chemical (caustic) burns, including third degree burns.

Burns from Portland cement may not cause immediate pain or discomfort. You cannot rely on pain to alert you to cement burns. Therefore, precautions must be taken to prevent all contact with

QUIKRETE Companies, LLC



Portland cement. Cement burns can become worse even after contact has ended. If there is contact with this product, immediately remove all product from body and thoroughly rinse with water. If you experience or suspect a cement burn or inflammation you should immediately see a health care professional.

Skin burns and irritation may be caused by brief exposure, though often are caused by extended exposure of 15 minutes, an hour, or longer. Interaction of Portland cement with water or sweat releases a caustic solution which produces the burns or irritation. Any extended exposure should be treated as though a burn has occurred until determined otherwise.

Skin contact with Portland cement can also cause inflammation of the skin, referred to as dermatitis. Signs and symptoms of dermatitis can include itching, redness, swelling, blisters, scaling, and other changes in the normal condition of the skin. Signs and symptoms of burns include the above and whitening, yellowing, blackening, peeling or cracking of skin.

The Portland cement in this product may cause allergic contact dermatitis in sensitized individuals. This overreaction of the immune system can lead to severe inflammation. Sensitization may result from a single exposure to the low levels of Cr(VI) in Portland cement or repeated exposures over months or years. Sensitization is long lasting and, after sensitization, even very small quantities can trigger the dermatitis. Sensitization is uncommon. Individuals who experience skin problems, including seemingly minor ones, are advised to seek medical attention.

**Eye Contact:** Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

**Ingestion:** May be harmful if swallowed. Ingestion may cause discomfort and/or distress, nausea or vomiting.

4.3 Indication of immediate medical attention and special treatment needed:

Immediately seek medical advice if symptoms are significant or persist.

#### **SECTION V - FIRE FIGHTING MEASURES**

- **5.1 Flammability of the Product:** Non-flammable and non-combustible
- **5.2 Suitable extinguishing agents:** Treat for surrounding material
- 5.3 Special hazards arising from the substance or mixture: None
- 5.3a Products of Combustion: None
- **5.3b Explosion Hazards in Presence of Various Substances:** Non-explosive in presence of shocks



#### **SECTION VI – ACCIDENTAL RELEASE MEASURES**

**6.1 Personal precautions, protective equipment and emergency procedures:** Wear personal protective equipment (See section VIII). Keep unprotected persons away.

## 6.2 Methods and material for containment and cleaning up:

Do not allow to enter sewers/ surface or ground water. Dispose of unwanted materials and containers properly in accordance with all regulations.

#### SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND STORAGE

#### 7.1 Handling

**Precautions for safe handling:** Ensure good ventilation/exhaustion at the workplace. DO NOT BREATHE DUST. In dusty environments, the use of an OSHA, MSHA or NIOSH approved respirator and tight fitting goggles is recommended. Wear appropriate PPE (See section 8).Do not mix with other chemical products, except as indicated by the manufacturer. Do not get in eyes, on skin or clothing. Good housekeeping is important to prevent accumulation of dust.

## 7.2 Storage

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

**Further information about storage conditions:** Keep out of the reach of children. Keep container tightly closed and prevent exposure to humidity. Do not allow water to contact the product until time of use to preserve product utility.

#### SECTION VIII - EXPOSURE CONTROL MEASURES / PERSONAL PROTECTION

8.1 Components with lin	nit values that	require monitoring at the w	orkplace:
Hazardous Components	CAS No.	PEL (OSHA) mg/M³	TLV (ACGIH) mg/M <sup>3</sup>
Silica Sand, crystalline	14808-60-7	0.05	0.025 (resp)
Portland Cement	65997-15-1	5 (resp) 15 (total)	10 (resp)
Calcium Sulfoaluminate	65997-16-2	15	10
Calcium Aluminate	12042-68-1	5 (resp) 15 (total)	1 (resp)
Calcium Sulfate	10101-41-4	5 (resp) 15 (total)	10 (resp)
Limestone Dust	01317-65-3	5 (resp) 15 (total)	10 (resp)

#### 8.2 Exposure Controls

Use ventilation adequate to keep exposures below recommended exposure limits.

SDS C6 QUIKRETE Companies, LLC 2/10/2023



## 8.3 General protective and hygienic measures

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

## 8.3a Personal protective equipment

## Protection of hands and feet:

Wear gloves of adequate length to offer appropriate skin protection from splashes. Nitrile, Butyl and PVC gloves have been found to offer adequate protection for incidental contact. Wear rubber boots when stepping in concrete. You cannot rely on pain to alert you to cement burns. Portland cement can cause dermatitis or sensitization.

## **Eye protection:**

Wear approved eye protection properly fitted dust- or splash-proof chemical safety glasses.

## **Respiratory protection:**

A NIOSH-approved dust mask or filtering face piece is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Respirators should be selected by and used under the direction of a trained health and safety professional, following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2).

#### **SECTION IX - PHYSICAL/CHEMICAL CHARACTERISTICS**

**General Information** 

**Appearance** Form: Granular Solid

Color: Gray to gray-brown colored

Odor: None

pH-value at 20°C (68 °F): 13 (10%)
Boiling point/Boiling range: Not applicable
Flash point: Not applicable

**Auto igniting:** Product is not self-igniting

Vapor pressure at 21°C (70°F) Not available Density at 25°C (77°F): 2.6 to 3.15

Solubility in / Miscibility with

Water: Insoluble VOC content: 0 g/L VOC

#### SECTION X - STABILITY AND REACTIVITY

10.1 Reactivity

SDS C6 QUIKRETE Companies, LLC 2/10/2023



No dangerous reaction known under conditions of normal use.

## 10.2 Chemical stability

Stable under normal storage conditions. Keep in dry storage.

## 10.3 Possibility of hazardous reaction

No dangerous reaction known under conditions of normal use.

## 10.4 Thermal decomposition / conditions to be avoided

No decomposition if used according to specifications.

## 10.5 Incompatible materials

Contact of silica with powerful oxidizing agents such as fluorine, chlorine trifluoride, manganese trioxide, or oxygen difluoride may cause fires

## 10.6 Hazardous Decomposition or By-products

Silica will dissolve in Hydrofluoric Acid and produce a corrosive gas – silicon tetrafluoride.

## **SECTION XI – TOXICOLOGICAL INFORMATION**

**11.1 Exposure Routes:** Skin contact, skin adsorption, eye contact, inhalation, or ingestion.

## 11.2 Symptoms related to physical/chemical/toxicological characteristics:

**Inhalation:** May cause respiratory tract irritation. Causes damage to organs through prolonged or repeated exposure. This product contains crystalline silica. Prolonged or repeated inhalation of respirable silica from this product can cause silicosis.

**Skin contact:** Causes skin irritation. Handling can cause dry skin, discomfort, irritation, and dermatitis. May cause sensitization by skin contact. Product becomes extremely alkaline when exposed to moisture, and can cause alkali burns and affect the mucous membranes.

**Eye Contact:** Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

**Ingestion:** Harmful if swallowed. Ingestion may cause discomfort and/or distress, nausea or vomiting.

# 11.3 Delayed, immediate and chronic effects of short-term and long-term exposure Short Term

Skin Corrosion/Irritation: Causes severe skin burns.

Serious Eye Damage/Irritation: Causes severe eye damage.

Respiratory Sensitization: Not available

Skin Sensitization: May cause an allergic skin reaction.

Specific Target Organ Toxicity-Single Exposure: (Category 3) may cause respiratory

irritation.

Aspiration Hazard: Not available

QUIKRETE Companies, LLC



## Long Term

Carcinogenicity: May cause cancer through chronic inhalation.

Germ Cell Mutagenicity: Not available Reproductive Toxicity: Not available

Specific Target Organ Toxicity- Repeated Exposure: (Category 1) Causes damage to lungs

through prolonged/repeated exposure

Synergistic/Antagonistic Effects: Not available.

## **SECTION XII - ECOLOGICAL INFORMATION**

## 12.1 Ecotoxicity

May cause long-term adverse effects to the aquatic environment. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or un-neutralized

# 12.2 Persistence and degradability

No further relevant information available.

# 12.3 Bioaccumulative potential:

No further relevant information available.

#### 12.4 Mobility in soil

No further relevant information available.

#### 12.5 Other Adverse Effects

No further relevant information available.

#### **SECTION XIII - DISPOSAL CONSIDERATIONS**

## 13.1 Waste Disposal Method

The packaging and material may be land filled; however, material should be covered to minimize generation of airborne dust. This product is <u>not</u> classified as a hazardous waste under the authority of the RCRA (40CFR 261) or CERCLA (40CFR 117&302). Disposal must be made in accordance with local, state and federal regulations.

## 13.2 Other disposal considerations

**Uncleaned packaging** 

**Recommendation:** Disposal must be made in accordance with local, state and federal regulations.

Recommended cleansing agent: Water, if necessary with cleansing agents.

QUIKRETE Companies, LLC



SECTION XIV - TRANSPORT INFORMATION					
DOT (U.S.) TDG (Canada)					
UN-Number	Not Regulated	Not Regulated			
UN proper shipping name	Not Regulated	Not Regulated			
Transport Hazard Class(es)	Not Regulated	Not Regulated			
Packing Group (if applicable)	Not Regulated	Not Regulated			

#### 14.1 Environmental hazards:

Not Available

# 14.2 Transport in bulk according to Annex II of Marpol 73/78 and the IBC Code Not available

## 14.3 Special precautions for user

Do not handle until all safety precautions have been read and understood.

#### **SECTION XV – OTHER REGULATORY INFORMATION**

# 15.1 Safety, Health and Environmental Regulations/Legislations specific for the chemical

#### Canada

**WHMIS Classification:** Considered to be a hazardous material under the Hazardous Products Act as defined by the Controlled Products Regulations and subject to the requirements of Health Canada's Workplace Hazardous Material Information (WHMIS). This document complies with the WHMIS requirements of the Hazardous Products Act (HPA) and the CPR.

## 15.2 US Federal Information

## **SARA 302/311/312/313 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302, 311, 312 or 313.

**RCRA:** Crystalline silica (quartz) is not classified as a hazardous waste under the Resource Conservation and Recovery Act, or its regulations, 40 CFR §261 et seq.

**CERCLA:** Crystalline silica (quartz) is not classified as a hazardous substance under regulations of the Comprehensive Environmental Response Compensation and Liability Act (CERCLA), 40 CFR §302.



Emergency Planning and Community Right to Know Act (SARA Title III): Crystalline silica (quartz) is not an extremely hazardous substance under Section 302 and is not a toxic chemical subject to the requirements of Section 313.

**FDA:** Silica is included in the list of substances that may be included in coatings used in food contact surfaces, 21 CFR §175.300(b)(3)(xxvi).

**NTP:** Respirable crystalline silica, primarily quartz dusts occurring in industrial and occupational settings, is classified as Known to be a Human Carcinogen.

**OSHA Carcinogen:** Crystalline silica (quartz) is not listed.

## 15.3 State Right to Know Laws

California Prop. 65 Components

**WARNING:** This product can expose you to chemicals including crystalline silica which is known to the State of California to cause cancer and Portland cement which is known to the State of California to cause birth defects or other reproductive harm. For more information go to <a href="https://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>.

California Inhalation Reference Exposure Level (REL): California established a chronic REL of 3 µg for silica (crystalline, respirable). A chronic REL is an airborne level of a substance at or below which no adverse health effects are anticipated in individuals indefinitely exposed to the substance at that level.

**Massachusetts Toxic Use Reduction Act:** Silica, crystalline (respirable size, <10 microns) is "toxic" for purposes of the Massachusetts Toxic Use Reduction Act.

## 15.4 Global Inventories

**DSL** All components of this product are on the Canadian DSL list.

**TSCA No.:** Crystalline silica (quartz) appears on the EPA TSCA inventory under the CAS No. 14808-60-7. All constituents are listed in the TSCA inventory.

#### **SECTION XVI – OTHER INFORMATION**

Last Updated: February 10, 2023

**NOTE:** The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to silica contained in our products.

Prepared by The QUIKRETE Companies, LLC

# **End of SDS**

SDS C6 QUIKRETE Companies, LLC

Date Printed: 4/4/2024 Page 1 / 7

# Safety Data Sheet



\* Trusted Quality Since 1921 \* www.rustoleum.com

## 1. Identification

Product Name: PRO LSPR 6PK MARK FLUORESCENT

ORANGE

Product Identifier: 2554838

Recommended Use: Marking Paint/Aerosols

Supplier: Rust-Oleum Corporation

11 Hawthorn Parkway Vernon Hills, IL 60061

USA

Rust-Oleum Canada (ROCA) 200 Confederation Parkway Concord, ON L4K 4T8

Canada

Emergency Phone: 800-387-3625

Preparer: Regulatory Department

**Emergency Telephone:** 24 Hour Hotline: 847-367-7700

Revision Date: 4/4/2024

Supercedes Date: 12/16/2022

Manufacturer: Rust-Oleum Corporation

11 Hawthorn Parkway Vernon Hills, IL 60061

USA

#### 2. Hazards Identification

## Classification

Symbol(s) of Product







Signal Word

Danger

#### **Possible Hazards**

19% of the mixture consists of ingredient(s) of unknown acute toxicity.

#### **GHS Hazard Statements**

Carcinogenicity, category 2 H351 Suspected of causing cancer. Flammable Aerosol, category 1 H222 Extremely flammable aerosol.

Gases under Pressure; Compressed Gas H280 Contains gas under pressure; may explode if heated.

STOT, Repeated Exposure, category 2 H373 May cause damage to organs through prolonged or repeated exposure.

**GHS Label Precautionary Statements** 

P201 Obtain special instructions before use.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P260 Do not breathe dust/fumes/gas/mist/vapours/spray.

P280 Wear protective gloves / protective clothing / eye protection / face protection.

Date Printed: 4/4/2024 Page 2 / 7

P308+P313 IF exposed or concerned: Get medical advice/attention.

P319 Get medical help if you fell unwell.

P405 Store locked up.

P410+P403 Protect from sunlight. Store in a well-ventilated place.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122°F.

P501 Dispose of contents and container in accordance with local, regional and national regulations.

## 3. Composition / Information on Ingredients

#### **HAZARDOUS SUBSTANCES**

Chemical Name	CAS-No.	<u>Wt.%</u> Range	GHS Symbols	GHS Statements
Propane	74-98-6	10-25	GHS04	H280
Naphtha, Petroleum, Hydrotreated Light	64742-49-0	2.5-10	GHS08	H304
Hydrotreated Light Distillate	64742-47-8	2.5-10	GHS08	H304
n-Butane	106-97-8	2.5-10	GHS04	H280
Xylenes (o-, m-, p- Isomers)	1330-20-7	2.5-10	GHS02-GHS07	H226-315-319-332
Barium Sulfate	7727-43-7	2.5-10	GHS07	H332
Ethylbenzene	100-41-4	1.0-2.5	GHS02-GHS07- GHS08	H225-304-332-351-373
Mineral Spirits	64742-88-7	0.1-1.0	GHS08	H304-372
n-Heptane	142-82-5	0.1-1.0	GHS02-GHS07- GHS08	H225-304-315-336
Octane	111-65-9	0.1-1.0	GHS02-GHS07- GHS08	H225-304-315-336
Stoddard Solvent	8052-41-3	0.1-1.0	GHS08	H304-372
Pigment Orange 13	3520-72-7	0.1-1.0	Not Available	Not Available
Crystalline Silica / Quartz	14808-60-7	0.1-1.0	Not Available	Not Available

#### 4. First-Aid Measures

**First Aid - Eye Contact:** Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids open. Get medical attention. Do NOT allow rubbing of eyes or keeping eyes closed. Remove contact lenses, if present and easy to do. Continue rinsing.

First Aid - Skin Contact: Wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists.

**First Aid - Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. Do NOT use mouth-to-mouth resuscitation. If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

**First Aid - Ingestion:** If swallowed, do not induce vomiting. If victim is conscious and alert, give 2 to 4 cupfuls of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Treat symptomatically and supportively. Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Get immediate medical attention.

## 5. Fire-Fighting Measures

**EXTINGUISHING MEDIA:** Aqueous Film Forming Foam, Carbon Dioxide, Dry Chemical, Dry Sand, Water Fog

Date Printed: 4/4/2024 Page 3 / 7

**Unusual Fire and Explosion Hazards:** FLASH POINT IS LESS THAN -7°C (20°F). EXTREMELY FLAMMABLE LIQUID AND VAPOR!Water spray may be ineffective. Closed containers may explode when exposed to extreme heat. Vapors may form explosive mixtures with air. Vapors can travel to a source of ignition and flash back. Isolate from heat, electrical equipment, sparks and open flame. Perforation of the pressurized container may cause bursting of the can.

**Special Fire Fighting Procedures:** Water may be used to cool closed containers to prevent buildup of steam. Full protective equipment including self-contained breathing apparatus should be used. If water is used, fog nozzles are preferred. Evacuate area and fight fire from a safe distance. Use water spray to keep fire-exposed containers cool. Containers may explode when heated.

Special Fire and Explosion Hazard (Combustible Dust): Not a combustible dust.

## 6. Accidental Release Measures

Steps to Be Taken If Material Is Released or Spilled: If spilled, contain spilled material and remove with inert absorbent. Dispose of contaminated absorbent, container, and unused contents in accordance with local, state, and federal regulations. Do not incinerate closed containersContain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Remove all sources of ignition, ventilate area and remove with inert absorbent and non-sparking tools. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers.

## Handling and Storage

**Handling:** Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and launder before reuse. Use only with adequate ventilation. Follow all SDS and label precautions even after container is emptied because it may retain product residues. Avoid breathing fumes, vapors, or mist. Avoid contact with eyes, skin and clothing. Do not puncture or incinerate (burn) container, even after use.

**Storage:** Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Contents under pressure. Do not store above 120°F (49°C). Store large quantities in buildings designed and protected for storage of flammable aerosols. Keep away from heat, sparks, flame and sources of ignition. Contents under pressure. Do not expose to heat or store above 120°F (49°C). **Advice on Safe Handling of Combustible Dust:** No Information

## 8. Exposure Controls / Personal Protection

Chemical Name	CAS-No.	Weight % Less Than	ACGIH TLV- TWA	ACGIH TLV- STEL	OSHA PEL-TWA	OSHA PEL- CEILING
Propane	74-98-6	15.0	N.E.	N.E.	1000 ppm	N.E.
Naphtha, Petroleum, Hydrotreated Light	64742-49-0	10.0	N.E.	N.E.	N.E.	N.E.
Hydrotreated Light Distillate	64742-47-8	10.0	N.E.	N.E.	N.E.	N.E.
n-Butane	106-97-8	5.0	N.E.	1000 ppm	N.E.	N.E.
Xylenes (o-, m-, p- Isomers)	1330-20-7	5.0	20 ppm	N.E.	100 ppm	N.E.
Barium Sulfate	7727-43-7	5.0	5 mg/m3	N.E.	15 mg/m3	N.E.
Ethylbenzene	100-41-4	5.0	20 ppm	N.E.	100 ppm	N.E.
Mineral Spirits	64742-88-7	1.0	N.E.	N.E.	N.E.	N.E.
n-Heptane	142-82-5	1.0	400 ppm	500 ppm	500 ppm	N.E.
Octane	111-65-9	1.0	300 ppm	N.E.	500 ppm	N.E.
Stoddard Solvent	8052-41-3	1.0	100 ppm	N.E.	500 ppm	N.E.
Pigment Orange 13	3520-72-7	1.0	N.E.	N.E.	N.E.	N.E.
Crystalline Silica / Quartz	14808-60-7	1.0	0.025 mg/m3	N.E.	50 μg/m3	N.E.

#### PERSONAL PROTECTION

**Engineering Controls:** Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof ventilation equipment. Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation.

Respiratory Protection: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. A NIOSH/MSHA approved air purifying respirator with organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

Skin Protection: Use impervious gloves to prevent skin contact and absorption of this material through the skin.

Eye Protection: Use safety eyewear designed to protect against splash of liquids.

**Other Protective Equipment:** Refer to safety supervisor or industrial hygienist for further guidance regarding types of personal protective equipment and their applications. Refer to safety supervisor or industrial hygienist for further information regarding personal protective equipment and its application.

**Hygienic Practices:** Wash thoroughly with soap and water before eating, drinking or smoking. Remove contaminated clothing immediately and launder before reuse.

Engineering Measures for Combustible Dust: No Information

Date Printed: 4/4/2024 Page 4 / 7

## 9. Physical and Chemical Properties

Appearance: **Physical State:** Aerosolized Mist Liquid Odor: Solvent Like **Odor Threshold:** N.E. Specific Gravity: 0.918 :Ha N.A. Freeze Point, °C: Viscosity: N.D. N.D. Partition Coefficient, n-octanol/ Solubility in Water: Slight N.D. water: Decomposition Temp., °C: N.D. Boiling Range, °C: **Explosive Limits, vol%:** -37 - 537 0.9 - 12.6Flammability: Flash Point, °C: Supports Combustion -96 **Evaporation Rate:** Auto-Ignition Temp., °C: Faster than Ether N.D. Vapor Density: Vapor Pressure: Heavier than Air N.D.

(See "Other information" Section for abbreviation legend)

## 10. Stability and Reactivity

Conditions to Avoid: Avoid temperatures above 120°F (49°C). Avoid all possible sources of ignition. Avoid excess heat.

Incompatibility: Incompatible with strong oxidizing agents, strong acids and strong alkalies.

**Hazardous Decomposition:** By open flame, carbon monoxide and carbon dioxide. When heated to decomposition, it emits acrid smoke and irritating fumes. Contains solvents which may form carbon monoxide, carbon dioxide, and formaldehyde.

Hazardous Polymerization: Will not occur under normal conditions.

Stability: This product is stable under normal storage conditions.

## 11. Toxicological Information

Effects of Overexposure - Eye Contact: Causes eye irritation. Irritating, and may injure eye tissue if not removed promptly.

**Effects of Overexposure - Skin Contact:** Substance may cause slight skin irritation. Prolonged or repeated contact may cause skin irritation. Low hazard for usual industrial handling or commercial handling by trained personnel.

Effects of Overexposure - Inhalation: Harmful if inhaled. High gas, vapor, mist or dust concentrations may be harmful if inhaled. Avoid breathing fumes, spray, vapors, or mist. High vapor concentrations are irritating to the eyes, nose, throat and lungs. Constituents of this product include crystalline silica dust which, if inhalable, may cause silicosis, a form of progressive pulmonary fibrosis. Inhalable crystalline silica is listed by IARC as a group I carcinogen (lung) based on sufficient evidence in occupationally exposed humans and sufficient evidence in animals. Crystalline silica is also listed by the NTP as a known human carcinogen. Constituents may also contain asbestiform or non-asbestiform tremolite or other silicates as impurities, and above de minimus exposure to these impurities in inhalable form may be carcinogenic or cause other serious lung problems.

Effects of Overexposure - Ingestion: Substance may be harmful if swallowed.

Effects of Overexposure - Chronic Hazards: May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. High concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches, paralysis, and blurred vision) and/or damage. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Overexposure to xylene in laboratory animals has been associated with liver abnormalities, kidney, lung, spleen, eye and blood damage as well as reproductive disorders. Effects in humans, due to chronic overexposure, have included liver, cardiac abnormalities and nervous system damage. IARC lists Ethylbenzene as a possible human carcinogen (group 2B).

PRIMARY ROUTE(S) OF ENTRY: Eye Contact, Ingestion, Inhalation, Skin Absorption, Skin Contact

#### **ACUTE TOXICITY VALUES**

The acute effects of this product have not been tested. Data on individual components are tabulated below:

CAS-No.	Chemical Name	Oral LD50	Dermal LD50	Vapor LC50
64742-49-0	Naphtha, Petroleum, Hydrotreated Light	>5000 mg/kg Rat	>3160 mg/kg Rabbit	>4951 mg/L Rat
64742-47-8	Hydrotreated Light Distillate	>5000 mg/kg Rat	>2000 mg/kg Rabbit	>5000 mg/L Rat
106-97-8	n-Butane	N.E.	N.E.	658 mg/L Rat
1330-20-7	Xylenes (o-, m-, p- Isomers)	3500 mg/kg Rat	>4350 mg/kg Rabbit	29.08 mg/L Rat
7727-43-7	Barium Sulfate	307000 mg/kg Rat	N.E.	N.E.
100-41-4	Ethylbenzene	3500 mg/kg Rat	15400 mg/kg Rabbit	17.4 mg/L Rat
64742-88-7	Mineral Spirits	19748 mg/kg Rat	>4000 mg/kg Rabbit	4951 mg/L Rat
142-82-5	n-Heptane	N.E.	3000 mg/kg Rabbit	>73.5 mg/L Rat
111-65-9	Octane	N.E.	N.E.	>24.88 mg/L Rat
8052-41-3	Stoddard Solvent	N.E.	>3000 mg/kg Rabbit	25
3520-72-7	Pigment Orange 13	5000 mg/kg Rat	>2000 mg/kg Rat	N.E.
14808-60-7	Crystalline Silica / Quartz	5500 mg/kg Rat	5500	100 mg/L

Date Printed: 4/4/2024 Page 5 / 7

#### N.E. - Not Established

## 12. Ecological Information

Ecological Information: Product is a mixture of listed components. No ecotoxicity data was found for this product.

## 13. Disposal Information

**Disposal:** Do not incinerate closed containers. Dispose of material in accordance to local, state, and federal regulations and ordinances. This product as supplied is a US EPA defined ignitable hazardous waste. Dispose of unusable product as a hazardous waste (D001) in accordance with local, state, and federal regulation. EPA Hazardous Waste Number (RCRA): D005 (Barium). Dispose of in accordance with U.S. EPA 40 CFR 262 for concentrations at or above the Regulatory level. Regulatory level- 100.0 mg/L.

## 14. Transport Information

	Domestic (USDOT)	International (IMDG)	<u>Air (IATA)</u>	TDG (Canada)
UN Number:	N.A.	1950	1950	1950
Proper Shipping Name:	Paint and Related Spray Products in Ltd Qty	Aerosols	Aerosols, flammable	AEROSOLS, flammable
Hazard Class:	N.A.	2	2.1	2.1
Packing Group:	N.A.	N.A.	N.A.	N.A.
Limited Quantity:	Yes	Yes	Yes	Yes

# 15. Regulatory Information

## U.S. Federal Regulations:

#### **CERCLA - SARA Hazard Category**

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Gas under pressure, Carcinogenicity, Specific target organ toxicity (single or repeated exposure)

#### **SARA Section 313**

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

 Chemical Name
 CAS-No.

 Xylenes (o-, m-, p- Isomers)
 1330-20-7

 Barium Sulfate
 7727-43-7

 Ethylbenzene
 100-41-4

#### **Toxic Substances Control Act**

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(b) if exported from the United States:

No TSCA 12(b) components exist in this product.

## U.S. State Regulations:

#### California Proposition 65

WARNING:

Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

Date Printed: 4/4/2024 Page 6 / 7

#### 16. Other Information

**HMIS RATINGS** 

Health: 2\* Flammability: 4 Physical Hazard: 0 Personal Protection: X

**NFPA RATINGS** 

Health: 2 Flammability: 4 Instability: 0

Maximum Incremental Reactivity: 0.80
SDS REVISION DATE: 4/4/2024

REASON FOR REVISION: Product Composition Changed

Substance and/or Product Properties Changed in

Section(s):

01 - Identification

02 - Hazard Identification

03 - Composition / Information on Ingredients

05 - Fire-Fighting Measures11 - Toxicological Information14 - Transport Information16 - Other Information

Substance Hazard Threshold % Changed

Revision Statement(s) Changed

Legend: N.A. - Not Applicable, N.D. - Not Determined, N.E. - Not Established

The manufacturer believes, to the best of its knowledge, information and belief, the information contained herein to be accurate and reliable as of the date of this safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials. The manufacturer makes no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and to comply with all applicable international, federal, state, and local laws and regulations.

Date Printed: 4/4/2024 Page 7 / 7

## STIHL HP (HIGH PERFORMANCE) 2-CYCLE ENGINE OIL

Packaged for Stihl Incorporated, 536 Viking Drive, Virginia Beach, VA 23452



# Safety Data Sheet

Conforms to HCS 2012 (29 CFR 1910.1200)

## **Section 1. Identification**

**Product identifier** 

Product Name: STIHL HP (High Performance) 2-Cycle Engine Oil

Other names: F3E

Part/Product Number(s): 0781-319-8008, 0781-319-8009, 0781-319-8010, 0781-319-8014, 0781-319-8015, 0781-319-8016,

0781-319-8044, 0781-319-8045, 0781-319-8049, 0781-319-8051, 7010-871-0208, 7010-871-0177

Material Use: 2-cycle engine fuel additive

Uses advised against: Not for use in non-2-cycle engines

Manufacturer: Omni Specialty Packaging, LLC

10399 Hwy 1 South Shreveport, LA 71115 1-318-524-1100

Issuing date: May 21, 2015
Revision date: February 28, 2018

Revision number: 003

Company contact: OMNI EHS Department: E-Mail: sds@osp.cc; Contact phone: 318-524-1100

(Monday-Friday, 8:00 AM – 4:00 PM, CST)

In case of emergency: CHEMTREC: Within USA and Canada: 1 (800) 424-9300 (24/7)

CHEMTREC: Outside USA and Canada: +1 703-527-3887 (24/7)

## Section 2. Hazards Identification

OSHA/HCS Status: This product is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29

CFR 1910.1200).

Classification of the Substance or Mixture: Not classified

GHS Label Elements

Hazard pictograms:

Signal word: None
Hazard statement: None

**Precautionary statements** 

General: Read label before use. Keep out of reach of children. If medical advice is needed, have product

container or label at hand.

Prevention:Not applicableResponse:Not applicableStorage:Not applicableDisposal:Not applicable

Hazards not otherwise classified (HNOC): Defatting to the skin.

Other information: Product diluted with gasoline must be handled with the same precautions used for gasoline. Before

mixing, the Safety Data Sheet for gasoline should be consulted for any precautionary measures

necessary.

# Section 3. Composition/Information on Ingredients

Petroleum mineral oil lubricant base stock with proprietary performance additives mixture.

Substance/Mixture: Mixture

Components Name	CAS number	Weight %*
Lubricant Base Oil (Petroleum) Highly refined mineral oils (C15-C50)	Various	85 – 95
2-Cycle Engine Oil Additives Mixture	Proprietary	5 – 15

This product does not contain known hazardous materials at the  $\geq$  1% level or known carcinogens at the  $\geq$  0.1% level as defined by 29 CFR 1910.1200.

## **Section 4. First Aid Measures**

Description of necessary first aid measures

General Advice: No specific first aid measures are required. Get medical attention if irritation develops and

persists.

Eye contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids

should be held away from the eyeball to ensure thorough rinsing. Check for and remove any

contact lenses. Get medical attention if irritation develops and persists.

Skin contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and

shoes. Get medical attention if irritation or allergic reaction develops and persists.

**Inhalation:** In case of inhalation of decomposition products in a fire, symptoms may be delayed. If

inhaled, remove to fresh air. The exposed person may need to be kept under medical

surveillance for 48 hours. Get medical attention if symptoms occur.

**Ingestion:** Do NOT induce vomiting. Drink plenty of water. If symptoms persist, call a physician.

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training. Remove all

sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Wear personal protective

clothing (see section 8).

#### Most important symptoms and effects, both acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

**Most Important** 

Symptoms and Effects: Personnel with pre-existing skin disorders should avoid contact with this product. Under normal use

conditions, no adverse effects to health are known.

**Eye contact:** Not expected to cause prolonged or significant eye irritation.

**Skin contact:** Contact with skin is not expected to cause prolonged or significant irritation. Contact with skin is not

expected to cause an allergic skin response. Not expected to be harmful to internal organs if

absorbed through the skin.

Inhalation: Not expected to be harmful if inhaled. Contains petroleum-based mineral oil. May cause

respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recommended oil mist exposure limit. Symptoms of respiratory

irritation may include coughing and difficult breathing.

**Ingestion:** Not expected to be harmful if swallowed.

**Note to physician:** Treat symptomatically.

<sup>\*</sup> The exact percentage of composition has been withheld as a trade secret.

# **Section 5. Fire-Fighting Measures**

Uniform Fire Code: Class IIIB
Flash Point: 222°C (432°F)

**Extinguishing Media** 

Suitable Media: In case of fire, use extinguishing measures that are appropriate to local circumstances and

the surrounding environment. Use water fog, alcohol resistant foam, dry chemical, carbon

dioxide (CO2) extinguisher or spray.

Unsuitable Media: CAUTION: Use of water spray when fighting fire may be inefficient.

**Specific Hazards Arising from** 

the Chemical:

Keep product and empty container away from heat and sources of ignition as product will burn. Contact with strong oxidizers may cause fire. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be contained, prevented from being discharged to any waterway, sewer or drain and disposed of in accordance with local regulations.

Hazardous Combustion Products: Combustion products may include the following: Carbon dioxide (CO2) Carbon

monoxide (CO), and Nitrogen oxides.

Protection of Fire Fighters: Promptly isolate the scene by removing all persons from the vicinity of the incident if

there is a fire. No action shall be taken involving any personal risk or without suitable training. As in any fire, wear self-contained breathing apparatus pressure-demand.

MSHA/NIOSH (approved or equivalent) and full protective gear.

# Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training.

Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Do not touch or walk through spilled material. Put on appropriate personal protective equipment. Floors may be slippery; use care to avoid falling.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information

in Section 8 on suitable and unsuitable materials. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must

be grounded. See also the information in "For non-emergency personnel".

**Environmental precautions:** Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains

and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). See Section 12 for ecological information.

Methods and materials for containment and cleaning up

Small Spills: Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in

an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large Spills: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses,

basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to

local regulations. Dispose of via a licensed waste disposal contractor.

NOTE: If RQ (Reportable Quantity) is exceeded or if spills enter a body of water, report immediately to the USEPA's National Response Center at (800) 424-8802. Check with your local and state regulators regarding their reporting requirements.

# **Section 7. Handling and Storage**

**Precautions for safe handling** 

Protective measures: Eye protection and face shield should be used if material is used under conditions that

increase the chances of splattering. Put on appropriate personal protective equipment

(see Section 8). Keep out of reach of children.

NOTE: Product diluted with gasoline must be handled with the same precautions used for gasoline. Before mixing, the

Safety Data Sheet for gasoline should be consulted for any precautionary measures necessary.

Advice on general occupational hygiene:

Do not get in eyes, on skin or on clothing. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment

before entering eating areas.

See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, Including any incompatibilities:

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials, strong oxidizing agents (see Section 10) and food and drink. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Use appropriate containment to avoid environmental contamination. Avoid contaminating soil or releases into sewage or drainage systems and bodies of water.

# **Section 8. Exposure Controls/Personal Protection**

**Control parameters** 

**Occupational Exposure Limits** 

Chemical name	ACGIH		OSHA		NIOSH	
Chemical name	TLV	STEL	PEL	STEL	TWA	Ceiling
Lubricant Base Oil (Petroleum)	5 mg/m3	10 mg/m3	5 mg/m3			
Highly refined mineral oils (C15-C50)	(mist)	(mist)	(mist)	_	_	_

Appropriate engineering controls: Goo

Good general ventilation should be sufficient to control worker exposure to airborne contaminants. Emergency shower and eyewash station.

**Environmental exposure controls:** 

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

**Individual protection measures** 

Hygiene measures:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that

eyewash stations and safety showers are close to the workstation location.

**Eye/Face Protection:** 

Wear safety glasses with side shields. A face shield may be necessary under some conditions.

**Skin and Body Protection** 

Hand protection: Wear protective gloves if prolonged or repeated contact is likely. Wear

chemical resistant gloves. Recommended: Nitrile gloves. Consult your supervisor

or Standard Operating Procedure (SOP) for special handling instructions.

Body protection: No protective of

No protective equipment is needed under normal use conditions. For non-routine tasks, personal protection equipment for the body should be selected based on the

task being performed and the risks involved.

Other skin protection: Appropriate footwear and any additional skin protection measures should be

selected based on the task being performed and the risks involved.

**Respiratory protection:** No respiratory protection is normally required. If user operation generates an oil

mist, determine if airborne concentrations are below the occupational exposure limit for mineral oil mist. If not, wear an approved respirator that provides adequate protection from measured concentrations of this material. The correct choice of respiratory protection depends upon the chemicals being handled, the conditions of work and use, and the condition of the respiratory equipment. For air-purifying respirators use a particulate cartridge. Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide

adequate protection.

# **Section 9. Physical and Chemical Properties**

Appearance (Typical or Target)

Physical State: Liquid Color: Blue

Odor: Petroleum distillates
Odor threshold: Not available
pH: Not applicable
Boiling Point: Not available

Flash Point (Closed cup): 222°C (432°F) (Typical or Target)
Pour Point: -25°C (-13°F) (Typical or Target)

Evaporation rate (Butyl acetate = 1): Not available

Flammability (solid, gas): Not applicable. Based on - Physical state

Flammable) Limit in Air
Vapor pressure:

Not available
Not available

Vapor density (Air = 1): >1

Relative density: 0.8820 - 0.8990 g/l at 15°C (Typical or Target)

Solubility: In soluble in water
Partition coefficient (n-Octanol/water): Not available
Auto-ignition temperature: Not available
Decomposition temperature: Not available
Viscosity – Kinematic (cSt (mm2/s) @ 40°C): 85 to 100
Viscosity – Kinematic (cSt (mm2/s) @ 100°C):10.3 to 12
VOC %: <0.026%

## Section 10. Stability and Reactivity

Reactivity: Not reactive under normal storage conditions
Chemical stability: Stable under normal storage conditions

Possibility of hazardous reactions: None under normal processing.

**Hazardous polymerization:** Hazardous polymerization does not occur.

Conditions to avoid: Heat, flames and sparks.

Incompatible materials: Oxidizing agents, Halogens, Halogenated compounds

Hazardous decomposition products: May include: Fumes, Oil vapors, Smoke, Carbon Oxides (including carbon monoxide

and carbon dioxide), Aldehydes, Nitrogen oxides, and incomplete combustion

products.

# **Section 11. Toxicological Information**

Information on toxicological effects

Basis for Assessment: Information given is based on product data, a knowledge of the components and the

toxicity of similar products.

**Likely Routs of Exposure:** Exposure may occur via skin absorption, skin or eye contact, inhalation, ingestion.

#### Substance/Mixture

Acute Toxicity	Oral LD50	Dermal LD50	Inhalation LC50
Lubricant Base Oil (Petroleum)	>2000 mg/Kg (rat)	>2000 mg/Kg (rabbit)	>2.18 mg/L (rat) 4h (mist)
Highly refined mineral oils (C15-			
C50) Mixture - Typical			

**Aspiration hazard:** Not expected to be an aspiration hazard.

Skin Corrosion/Irritation:
No known significant effects or critical hazards.

Serious Eye Damage/Irritation:
No known significant effects or critical hazards.

Skin Sensitization:
No known significant effects or critical hazards.

Respiratory Sensitization: No known significant effects or critical hazards. Specific Target Organ Toxicity

(Single Exposure) - STOT-SE: Specific Target Organ Toxicity

(Repeated Exposure) – STOT-RE: No known significant effects or critical hazards.

Carcinogenicity: No known significant effects or critical hazards.

Germ Cell Mutagenicity: No known significant effects or critical hazards.

Reproductive Toxicity: No known significant effects or critical hazards.

#### **Information on Toxicity Effects of Compounds**

#### **Lubricant Base Mineral Oil (Petroleum)**

Mineral oils are known to cause cancer because of carcinogenic components (e.g. Benzene). The lubricant base mineral oils in this product have been highly refined by a variety of processes including severe solvent extraction, severe hydro cracking or severe hydro treating to reduce aromatics and improve performance characteristics. The oils in this product meet the IP-346 criteria of less than 3 percent PHA's and are not considered to be a carcinogen by the International Agency for Research on Cancer.

No known significant effects or critical hazards.

None of the oils in this product require a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IRAC) as: carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B). These oils have not been classified by the American Conference of Governmental Industrial Hygienists (ACGIH) as: confirmed human carcinogen (A1), suspected human carcinogen (A2), or confirmed animal carcinogen with unknown relevance to humans (A3).

#### 2-Cycle engine oils mix with gasoline:

2-cycle engine oils diluted with gasoline must be handled with the same precautions used for gasoline. Before mixing, the Safety Data Sheet for gasoline should be consulted for any precautionary measures necessary.

# **Section 12. Ecological Information**

The information is based on data available for the material, the components of the material, and similar materials.

**Ecotoxicity:** No testing has been performed by the manufacturer. Ecotoxicity hazard is based on an evaluation of data for the components or a similar material. Not expected to be harmful to aquatic organisms.

Mobility: Base oil component – Low solubility and floats and is expected to migrate from water

to land. Expected to partition to sediment and wastewater solids.

Soil/water partition
coefficient (Koc):

Not available.

Persistence and degradation

Biodegradation: The material is not expected to be readily biodegradable. The biodegradability of

this material is based on an evaluation of data for the components or a similar

material.

**Bioaccumulative potential** 

Bioaccumulation: This product is not expected to bioaccumulate through food chain in the

environment.

Other adverse effects: No known significant effects or critical hazards.

Other ecological information: Spills may form a film on water surfaces causing physical damage to organisms.

Oxygen transfer could also be impaired.

# **Section 13. Disposal Considerations**

Disposal recommendations based on material supplied.

Waste treatment methods: This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR

261). Consult the appropriate state, regional, or local regulations for additional requirements.

The generation of waste should be avoided or minimized wherever possible.

Product waste: Significant quantities of waste product residues should not be disposed of via the sanitary

sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Incineration or landfill should only be considered when recycling is not

feasible. Oil collection services are available for used oil recycling.

Contaminated packaging: Empty containers or liners may retain some product residues and could pose a potential fire and

explosion hazard. Do not cut, puncture, or weld containers.

Other information: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and

sewers.

# **Section 14. Transport Information**

General information: Petroleum lubricating oil - Not regulated.

	DOT Classification	IMDG	IATA		
Stihl HP 2-Cycle	Not Regulated	Not Regulated	Not Regulated		

Special precautions for user: Transport within user's premises: Always transport in closed containers that are upright and

secure. Ensure that persons transporting the product know what to do in the event of an

accident or spillage.

# **Section 15. Regulatory Information**

United States Regulations

United States Inventory (TSCA 8b): All components are listed or exempted.

SARA 302/304: No products were found.

SARA 311/312: Immediate (Acute) Health Effects: No

Delayed (Chronic) Health Effects: No Fire Hazard: No Sudden Release of Pressure Hazard: No Reactivity Hazard: No

**SARA 313**:

The following components of this material are found on the EPCRA 313 list:

None

Supplier notification: This product does not contain any hazardous ingredients at or above regulated

thresholds.

CWA (Clean Water Act): This product does not contain any substances regulated as pollutants pursuant to the

Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

<u>CERCLA</u>: This material, as supplied, does not contain any substances regulated as a hazardous

substance under the Comprehensive Environmental Response Compensation and Liability

Act (CERCLA) (40 CFR 302).

State Regulations

Massachusetts:None of the components are at or above regulated thresholds.New Jersey:None of the components are at or above regulated thresholds.Pennsylvania:None of the components are at or above regulated thresholds.

California Proposition 65: WARNING: This product contains a chemical known to the State of California to cause cancer.

Ethylbenzene - < 0.1

**Canada** 

WHMIS Hazard Class: Not classified.

#### **International Chemical Inventories:**

All components comply with the following chemical inventory requirements: DSL (Canada)

# **Section 16. Other Information**

NFPA Rating:	Health Hazard - 1	Flammability – 1	Instability/Reactivity - 0
HMIS Rating:	Health Hazard - 1	Flammability – 1	Physical Hazards - 0

(NFPA & HMIS Hazard Rating Key: 0 - Minimum Hazard; 1 - Slight Hazard; 2 - Moderate Hazard; 3 - High Hazard; 4 - Extreme Hazard; \* - Chronic Hazard Indicator, & PPE - Personal Protective Equipment Index A to L. These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS or Hazardous Material Identification System).

#### Key to abbreviations:

OSHA = Occupational Safety and Health Administration ACGIH= American Conference of Industrial Hygienists

ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service Registry Number

cSt = Centistroke (mm2/s)

GHS = Global Harmonized System of Classification and Labeling Of Chemicals.

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

OEL = Occupational Exposure Limit

SDS = Safety Data Sheet

STEL = Short term exposure Limit

UN = United Nations

UN Number = United Nations Number, a four digit number assigned by the United Nations Committee of Experts on

the Transportation of Dangerous Goods

Prepared By: OMNI Specialty Packaging EH&S Department

Revision Date: February 28, 2018

Status: Final

Revision Note: Revision 003 - Three year review and update.

Consumer Product Improvement Act of 2008, General Conformity Certification

For Consumer Product Packages: This product has been evaluated and is certified to be labeled and packaged in compliance with the applicable provisions of the Federal Hazardous Substance Act as stated in 16 CFR 1500 and enforced by the Consumer Product Safety Commission. Where applicable the products that require Child Resistant Closures are packaged in accordance with the Poison Prevention Packaging Act as stated in 16 CFR 1700 and enforced by the Consumer Product Safety Commission. All closures have been tested in accordance with the latest protocols. No testing is required to certify compliance with the provisions. The date of the manufacturing is stamped on the product container.

#### **Disclaimer**

All reasonably practicable steps have been taken to ensure the information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This information is furnished upon condition that the person receiving it shall make their own determination of the suitability of the material for their particular purpose.

**End of Safety Data Sheet** 

#### STIHL HP ULTRA 2-CYCLE ENGINE OIL

Packaged for Stihl Incorporated, 536 Viking Drive, Virginia Beach, VA 23452



# **Safety Data Sheet**

Conforms to HCS 2012 (29 CFR 1910.1200)

## **Section 1. Identification**

**Product identifier** 

Product Name: STIHL HP ULTRA 2-CYCLE ENGINE OIL

Other names: F2020, Stihl High Performance Ultra "Fully Synthetic" Engine Oil

Part/Product Number(s): 0781-313-8002, 0781-313-8003, 0781-313-8004, 0781-313-8005, 0781-313-8007,

**0781-313-8008**, 0781-313-8010, **0781-313-8011**, 0781-313-8013, **0781-313-8014**,

**0781-313-8016**, **0781-313-8017**, **7010-871-0173**, 7010-871-0210.

Material Use: 2-cycle engine fuel additive

Uses advised against: Not for use in non-2-cycle engines

Manufacturer: Omni Specialty Packaging, LLC

10399 Hwy 1 South Shreveport, LA 71115 1-318-524-1100

Issuing date: May 21, 2015
Revision date: February 21, 2018

Revision number: 003

Company contact: OMNI EHS Department: E-Mail: <a href="mailto:sds@osp.cc">sds@osp.cc</a>; Contact phone: 318-524-1100

(Monday-Friday, 8:00 AM - 4:00 PM, CST)

In case of emergency: CHEMTREC: Within USA and Canada: 1 (800) 424-9300 (24/7)

CHEMTREC: Outside USA and Canada: +1 703-527-3887 (24/7)

# Section 2. Hazards Identification

OSHA/HCS Status: This product is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29

CFR 1910.1200).

Classification of the Substance or Mixture: Not classified

GHS Label Elements

Hazard pictograms:

Signal word: None
Hazard statement: None

**Precautionary statements** 

General: Read label before use. Keep out of reach of children. If medical advice is needed, have product

container or label at hand.

Prevention: Not applicable
Response: Not applicable
Storage: Not applicable
Disposal: Not applicable

Hazards not otherwise classified (HNOC): Defatting to the skin.

Other information: Product diluted with gasoline must be handled with the same precautions used for gasoline. Before

mixing, the Safety Data Sheet for gasoline should be consulted for any precautionary measures

necessary.

# Section 3. Composition/Information on Ingredients

Petroleum mineral oil lubricant base stock with proprietary performance additives mixture.

Substance/Mixture: Mixture

Components Name	CAS number	<u>Weight %*</u>
Base Oil: Trimethylolpropane Complex Ester	Various	80 – 100
2-Cycle Engine Oil Additives Mixture	Proprietary	0 – 20

This product does not contain known hazardous materials at the ≥ 1% level or known carcinogens at the ≥ 0.1% level as defined by 29 CFR 1910.1200.

## **Section 4. First Aid Measures**

Description of necessary first aid measures

General Advice: No specific first aid measures are required. Get medical attention if irritation develops and

persists.

**Eye contact:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids

should be held away from the eyeball to ensure thorough rinsing. Check for and remove any

contact lenses. Get medical attention if irritation develops and persists.

Skin contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and

shoes. Get medical attention if irritation or allergic reaction develops and persists.

In case of inhalation of decomposition products in a fire, symptoms may be delayed. If

inhaled, remove to fresh air. The exposed person may need to be kept under medical

surveillance for 48 hours. Get medical attention if symptoms occur.

**Ingestion:** Do NOT induce vomiting. Drink plenty of water. If symptoms persist, call a physician.

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training. Remove all

sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Wear personal protective

clothing (see section 8).

Most important symptoms and effects, both acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

**Most Important** 

Symptoms and Effects: Personnel with pre-existing skin disorders should avoid contact with this product. Under normal use

conditions, no adverse effects to health are known.

**Eye contact:** Not expected to cause prolonged or significant eye irritation.

**Skin contact:** Contact with skin is not expected to cause prolonged or significant irritation. Contact with skin is not

expected to cause an allergic skin response. Not expected to be harmful to internal organs if

absorbed through the skin.

Inhalation: Not expected to be harmful if inhaled. Contains petroleum-based mineral oil. May cause

respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recommended oil mist exposure limit. Symptoms of respiratory

irritation may include coughing and difficult breathing.

**Ingestion:** Not expected to be harmful if swallowed.

Note to physician: Treat symptomatically.

<sup>\*</sup> The exact percentage of composition has been withheld as a trade secret.

# **Section 5. Fire-Fighting Measures**

Uniform Fire Code: Class IIIB
Flash Point: 220°C (428°F)

**Extinguishing Media** 

Suitable Media: In case of fire, use extinguishing measures that are appropriate to local circumstances and

the surrounding environment. Use water fog, alcohol resistant foam, dry chemical, carbon

dioxide (CO2) extinguisher or spray.

Unsuitable Media: CAUTION: Use of water spray when fighting fire may be inefficient.

**Specific Hazards Arising from** 

the Chemical:

Keep product and empty container away from heat and sources of ignition as product will burn. Contact with strong oxidizers may cause fire. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be contained, prevented from being discharged to any waterway, sewer or drain and disposed of in accordance with local regulations.

Hazardous Combustion Products: Combustion products may include the following: Carbon dioxide (CO2) Carbon

monoxide (CO), and Nitrogen oxides.

**Protection of Fire Fighters:** Promptly isolate the scene by removing all persons from the vicinity of the incident if

there is a fire. No action shall be taken involving any personal risk or without suitable training. As in any fire, wear self-contained breathing apparatus pressure-demand.

MSHA/NIOSH (approved or equivalent) and full protective gear.

# Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training.

Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Do not touch or walk through spilled material. Put on appropriate personal protective equipment. Floors may be slippery; use care to avoid falling.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information

in Section 8 on suitable and unsuitable materials. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must

be grounded. See also the information in "For non-emergency personnel".

**Environmental precautions:** Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains

and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). See Section 12 for ecological information.

Methods and materials for containment and cleaning up

Small Spills: Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in

an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large Spills: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses,

basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to

local regulations. Dispose of via a licensed waste disposal contractor.

NOTE: If RQ (Reportable Quantity) is exceeded or if spills enter a body of water, report immediately to the USEPA's National Response Center at (800) 424-8802. Check with your local and state regulators regarding their reporting requirements.

# **Section 7. Handling and Storage**

Precautions for safe handling

**Protective measures:** 

Eye protection and face shield should be used if material is used under conditions that increase the chances of splattering. Put on appropriate personal protective equipment (see Section 8). Keep out of reach of children.

NOTE: Product diluted with gasoline must be handled with the same precautions used for gasoline. Before mixing, the Safety Data Sheet for gasoline should be consulted for any precautionary measures necessary.

Advice on general occupational hygiene:

Do not get in eyes, on skin or on clothing. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas.

See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, Including any incompatibilities:

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials, strong oxidizing agents (see Section 10) and food and drink. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Use appropriate containment to avoid environmental contamination. Avoid contaminating soil or releases into sewage or drainage systems and bodies of water.

# **Section 8. Exposure Controls/Personal Protection**

**Control parameters** 

**Occupational Exposure Limits** 

Chemical name	ACGIH		OSHA		NIOSH	
Chemical name	TLV	STEL	PEL	STEL	TWA	Ceiling
Base Oil: Trimethylolpropane Complex Ester	-	-	-	-	-	-

**Appropriate engineering controls:** 

Good general ventilation should be sufficient to control worker exposure to airborne contaminants. Emergency shower and eyewash station.

**Environmental exposure controls:** 

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

**Individual protection measures** 

Hygiene measures:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/Face Protection:** 

Wear safety glasses with side shields. A face shield may be necessary under some conditions.

Skin and Body Protection

**Hand protection:** 

Wear protective gloves if prolonged or repeated contact is likely. Wear chemical resistant gloves. Recommended: Nitrile gloves. Consult your supervisor

or Standard Operating Procedure (SOP) for special handling instructions.

**Body protection:** 

No protective equipment is needed under normal use conditions. For non-routine tasks, personal protection equipment for the body should be selected based on the

task being performed and the risks involved.

Appropriate footwear and any additional skin protection measures should be Other skin protection:

selected based on the task being performed and the risks involved.

No respiratory protection is normally required. If user operation generates an oil Respiratory protection:

> mist, determine if airborne concentrations are below the occupational exposure limit for mineral oil mist. If not, wear an approved respirator that provides adequate protection from measured concentrations of this material. The correct choice of respiratory protection depends upon the chemicals being handled, the conditions of work and use, and the condition of the respiratory equipment. For air-purifying respirators use a particulate cartridge. Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide

adequate protection.

## **Section 9. Physical and Chemical Properties**

**Appearance** (Typical or Target)

**Physical State:** Liauid Color: Green

Odor: Petroleum distillates **Odor threshold:** Not available Not applicable pH: **Boiling Point:** Not available

Flash Point (Closed cup): 220°C (428°F) (Typical or Target) **Pour Point:** -39°C (-38.2°F) (Typical or Target)

**Evaporation rate (Butyl acetate = 1):** Not available

Flammability (solid, gas): Not applicable. Based on - Physical state

Flammable) Limit in Air Not available Vapor pressure: Not available

Vapor density (Air = 1): >1

Relative density: 0.93 - 0.94 g/cm3 at 15°C (Typical or Target)

Solubility: In soluble in water Partition coefficient (n-Octanol/water): Not available **Auto-ignition temperature:** Not available **Decomposition temperature:** Not available Viscosity - Kinematic (cSt (mm2/s)@ 40°C): 46.0 to 52.0 Viscosity - Kinematic (cSt (mm2/s) @ 100°C):7.9 to 8.9 **VOC %:** <0.026%

### Section 10. Stability and Reactivity

Not reactive under normal storage conditions Reactivity: **Chemical stability:** Stable under normal storage conditions

Possibility of hazardous reactions: None under normal processing.

Hazardous polymerization: Hazardous polymerization does not occur.

Conditions to avoid: Heat, flames and sparks.

Incompatible materials: Oxidizing agents, Halogens, Halogenated compounds

**Hazardous decomposition products:** May include: Fumes, Oil vapors, Smoke, Carbon Oxides (including carbon monoxide

and carbon dioxide), Aldehydes, Nitrogen oxides, and incomplete combustion

products.

## Section 11. Toxicological Information

Information on toxicological effects

**Basis for Assessment:** Information given is based on product data, a knowledge of the components and the

toxicity of similar products.

**Likely Routs of Exposure:** Exposure may occur via skin absorption, skin or eye contact, inhalation, ingestion.

Substance/Mixture

Acute Toxicity	Oral LD50	Dermal LD50	Inhalation LC50
Base Oil: Trimethylolpropane Complex Ester	Not Classified	Not Classified	Not Classified

**Aspiration hazard:** Not expected to be an aspiration hazard.

Skin Corrosion/Irritation:

Serious Eye Damage/Irritation:

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

**Respiratory Sensitization:** No known significant effects or critical hazards.

**Specific Target Organ Toxicity** 

(Single Exposure) - STOT-SE: No known significant effects or critical hazards.

**Specific Target Organ Toxicity** 

(Repeated Exposure) – STOT-RE: No known significant effects or critical hazards.

Carcinogenicity: No known significant effects or critical hazards.

Germ Cell Mutagenicity: No known significant effects or critical hazards.

Reproductive Toxicity: No known significant effects or critical hazards.

#### **Information on Toxicity Effects of Compounds**

#### **Lubricant Base Mineral Oil (Petroleum)**

Mineral oils are known to cause cancer because of carcinogenic components (e.g. Benzene). The lubricant base mineral oils in this product have been highly refined by a variety of processes including severe solvent extraction, severe hydro cracking or severe hydro treating to reduce aromatics and improve performance characteristics. The oils in this product meet the IP-346 criteria of less than 3 percent PHA's and are not considered to be a carcinogen by the International Agency for Research on Cancer.

None of the oils in this product require a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IRAC) as: carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B). These oils have not been classified by the American Conference of Governmental Industrial Hygienists (ACGIH) as: confirmed human carcinogen (A1), suspected human carcinogen (A2), or confirmed animal carcinogen with unknown relevance to humans (A3).

#### 2-Cycle engine oils mix with gasoline:

2-cycle engine oils diluted with gasoline must be handled with the same precautions used for gasoline. Before mixing, the Safety Data Sheet for gasoline should be consulted for any precautionary measures necessary.

## **Section 12. Ecological Information**

The information is based on data available for the material, the components of the material, and similar materials.

**Ecotoxicity:** No testing has been performed by the manufacturer. Ecotoxicity hazard is based on an evaluation of data for the components or a similar material. Not expected to be harmful to aquatic organisms.

Mobility: Base oil component – Low solubility and floats and is expected to migrate from water

to land. Expected to partition to sediment and wastewater solids.

Soil/water partition
coefficient (Koc):

Not available.

**Persistence and degradation** 

Biodegradation: The material is not expected to be readily biodegradable. The biodegradability of

this material is based on an evaluation of data for the components or a similar

material.

**Bioaccumulative potential** 

Bioaccumulation: This product is not expected to bioaccumulate through food chain in the

environment.

Other adverse effects: No known significant effects or critical hazards.

Other ecological information: Spills may form a film on water surfaces causing physical damage to organisms.

Oxygen transfer could also be impaired.

## **Section 13. Disposal Considerations**

Disposal recommendations based on material supplied.

Waste treatment methods: This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR

261). Consult the appropriate state, regional, or local regulations for additional requirements.

The generation of waste should be avoided or minimized wherever possible.

Product waste: Significant quantities of waste product residues should not be disposed of via the sanitary

sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Incineration or landfill should only be considered when recycling is not

feasible. Oil collection services are available for used oil recycling.

Contaminated packaging: Empty containers or liners may retain some product residues and could pose a potential fire and

explosion hazard. Do not cut, puncture, or weld containers.

Other information: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and

sewers.

## **Section 14. Transport Information**

General information: Petroleum lubricating oil - Not regulated.

	DOT Classification	IMDG	IATA
Stihl HP ULTRA	Not Regulated	Not Regulated	Not Regulated

Special precautions for user: Transport within user's premises: Always transport in closed containers that are upright and

secure. Ensure that persons transporting the product know what to do in the event of an

accident or spillage.

## **Section 15. Regulatory Information**

United States Regulations

United States Inventory (TSCA 8b): All components are listed or exempted.

SARA 302/304: No products were found.

SARA 311/312: Immediate (Acute) Health Effects: No

Delayed (Chronic) Health Effects: No Fire Hazard: No Sudden Release of Pressure Hazard: No Reactivity Hazard: No

**SARA 313**:

The following components of this material are found on the EPCRA 313 list:

None

Supplier notification: This product does not contain any hazardous ingredients at or above regulated

thresholds.

CWA (Clean Water Act): This product does not contain any substances regulated as pollutants pursuant to the Clean

Water Act (40 CFR 122.21 and 40 CFR 122.42)

<u>CERCLA</u>: This material, as supplied, does not contain any substances regulated as a hazardous

substance under the Comprehensive Environmental Response Compensation and Liability Act

(CERCLA) (40 CFR 302).

**State Regulations** 

Massachusetts: None of the components are at or above regulated thresholds.

New Jersey: None of the components are at or above regulated thresholds.

Pennsylvania: None of the components are at or above regulated thresholds.

California Proposition 65: WARNING: This product contains a chemical known to the State of California to cause cancer.

Naphthalene - < 0.1

Canada

WHMIS Hazard Class: Not regulated.

#### **International Chemical Inventories:**

All components comply with the following chemical inventory requirements: DSL (Canada)

## **Section 16. Other Information**

NFPA Rating:	Health Hazard - 1	Flammability - 1	Instability/Reactivity - 0
HMIS Rating:	Health Hazard - 1	Flammability – 1	Physical Hazards – 0

(NFPA & HMIS Hazard Rating Key: 0 - Minimum Hazard; 1 - Slight Hazard; 2 - Moderate Hazard; 3 - High Hazard; 4 - Extreme Hazard; \* - Chronic Hazard Indicator, & PPE - Personal Protective Equipment Index A to L. These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS or Hazardous Material Identification System).

#### Key to abbreviations:

OSHA = Occupational Safety and Health Administration ACGIH= American Conference of Industrial Hygienists

ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service Registry Number

cSt = Centistroke (mm2/s)

GHS = Global Harmonized System of Classification and Labeling Of Chemicals.

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

OEL = Occupational Exposure Limit

SDS = Safety Data Sheet STEL = Short term exposure Limit

UN = United Nations

UN Number = United Nations Number, a four digit number assigned by the United Nations Committee of Experts on

the Transportation of Dangerous Goods

Prepared By: OMNI Specialty Packaging EH&S Department

Revision Date: February 21, 2018

Status: Final

Revision Note: Revision 003 - Classification review and update.

Consumer Product Improvement Act of 2008, General Conformity Certification

For Consumer Product Packages: This product has been evaluated and is certified to be labeled and packaged in compliance with the applicable provisions of the Federal Hazardous Substance Act as stated in 16 CFR 1500 and enforced by the Consumer Product Safety Commission. Where applicable the products that require Child Resistant Closures are packaged in accordance with the Poison Prevention Packaging Act as stated in 16 CFR 1700 and enforced by the Consumer Product Safety Commission. All closures have been tested in accordance with the latest protocols. No testing is required to certify compliance with the provisions. The date of the manufacturing is stamped on the product container.

#### Disclaimer

All reasonably practicable steps have been taken to ensure the information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This information is furnished upon condition that the person receiving it shall make their own determination of the suitability of the material for their particular purpose.

**End of Safety Data Sheet** 

### **STIHL MOTOMIX®**

Packaged for Stihl Incorporated, 536 Viking Drive, Virginia Beach, VA 23452



## **Safety Data Sheet**

Conforms to HCS 2012 (29 CFR 1910.1200)

### **Section 1. Identification**

**Product identifier** 

Product Name: STIHL MOTOMIX® High Performance Patented Fuel

Part/Product Number(s): 7010-871-0203, 7010-871-0204, 7010-871-0234, 7010-871-0235, 7010-871-0248

7010-871-0249, 7010-319-0003, 7010-319-0004, 7010-871-0273

Material Use: Premixed 2-cycle engine fuel mixture
Uses advised against: Not for use in non-2-cycle engines

Manufacturer: Omni Specialty Packaging, LLC

10399 Hwy 1 South Shreveport, LA 71115 1-318-524-1100

**Issuing date:** June 3, 2015

Revision date: November 29, 2016

Revision number: 005

Company contact: OMNI EHS Department: E-Mail: <a href="mailto:sds@osp.cc">sds@osp.cc</a>; Contact phone: 318-524-1100

(Monday-Friday, 8:00 AM - 4:00 PM, CST)

In case of emergency: CHEMTREC: Within USA and Canada: 1 (800) 424-9300 (24/7)

CHEMTREC: Outside USA and Canada: +1 703-527-3887 (24/7)

## Section 2. Hazards Identification

OSHA/HCS Status: This product is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR

1910.1200).

#### **US GHS Classification of the Substance or Mixture:**

Flammable Liquid – Category 1 Aspiration Hazard – Category 1 Skin Corrosion/Irritation – Category 2

Specific Target Organ Toxicity (Single Exposure) - Category 3 (respirator irritation, narcosis)

Hazardous to the Aquatic Environment - Chronic - Category 2

#### **GHS Label Elements**



**Hazard pictograms:** 

Signal word: DANGER

**Hazard statement:** Extremely flammable liquid and vapor.

Causes skin irritation.

May cause drowsiness or dizziness.

May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting effects.

#### **Precautionary statements**

General: Read label before use. Keep out of reach of children. If medical advice is needed, have product

container or label at hand.

Prevention: Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Keep container tightly closed.

Ground and bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.

Take precautionary measures against static discharge.

Use personal protective equipment as required.

Wear protective gloves/protective clothing/eye protection/face protection.

Wash hands and forearms thoroughly after handling.

Do not breathe mist/vapors/ sprays.
Use only outdoors or in well-ventilated area.
Do not eat, drink or smoke when using this product.

Avoid release to the environment.

Response: Collect spillage.

In case of fire: Use water spray, fog, dry chemical fire extinguishers or hand held fire extinguisher.

IF ON SKIN (or hair): Wash with plenty of soap and water.

Remove/Take off immediately all contaminated clothing and wash before reuse. If skin irritation occurs,

get medical advice/attention.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a

poison center or doctor/physician if you feel unwell.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do not induce vomiting.

Storage: Store in a well-ventilated place.

Keep cool. Keep container tightly closed.

Store locked up.

**Disposal:** Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazards not otherwise classified (HNOC): Defatting to the skin.

## Section 3. Composition/Information on Ingredients

Mixture consisting of the following components, special 2-stroke gasoline.

Substance/Mixture: Mixture

Components Name	CAS number	Weight %*	GHS Classification
Naphtha (petroleum), full-range alkylated, butane-contg.	68527-27-5	50 – 100	Flam. Liq. 1, Asp. Tox. 1, Skin Irrit. STOT-SE 3, Aquatic Acute 2, Aquatic Chronic 2
Methylbutane (Isopentane)	78-78-4	10 – 25	Flam. Liq. 1, Asp. Tox. 1, STOT-SE 3, Aquatic Chronic 2
Hydrocarbons, C4, 1,3-Butadiene-free, polymd., triisobuylene fraction, hydrogenated	93685-81-5	10 – 25	Flam. Liq. 1, Asp. Tox. 1, Aquatic Chronic 4
2-Cycle Engine Oil Additives Mixture	Proprietary	<1	Not classified

<sup>\*</sup> The exact percentage of composition has been withheld as a trade secret.

### **Section 4. First Aid Measures**

**Description of necessary first aid measures** 

Eye contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids

should be held away from the eyeball to ensure thorough rinsing. Check for and remove any

contact lenses. Get medical attention.

Skin contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and

shoes. Get medical attention if irritation or redness develops.

**Inhalation:** If inhaled, remove to fresh air. If person is not breathing, provide artificial respiration. If

necessary, provide additional oxygen once breathing is restored if trained to do so. Get medical

attention immediately.

**Ingestion:** Do NOT induce vomiting. Do not give liquids. Obtain immediate medial attention. If spontaneous

vomiting occurs, lean victim forward to reduce the risk of aspiration (inhalation into respiratory system). Monitor for breathing difficulties. Small amounts of material which enter the mouth

should be rinsed out until the taste is dissipated.

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training. Remove all

sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Wear personal protective

clothing (see section 8).

#### Most important symptoms and effects, both acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

**Most Important** 

Symptoms and Effects: Aspiration hazard. If material enters lungs, signs and symptoms may include coughing, choking,

wheezing, and/or fever. The onset of respiratory symptoms may be delayed for several hours after exposure. Breathing of high vapor concentrations may cause central nervous system (CNS) depression resulting in dizziness, light-headedness, headache, nausea and loss of coordination. Continued inhalation may result in unconsciousness and death. Eye irritation signs and symptoms may include burning sensation and a temporary redness of the eye. Skin irritation signs and

symptoms may include burning sensations, redness, swelling, and /or blisters.

**Note to physician:** Treat symptomatically.

## **Section 5. Fire-Fighting Measures**

Uniform Fire Code: Class IB

**Flash Point:** <-56°C (-68.8°F)

**Extinguishing Media** 

Suitable Media: In case of fire, use extinguishing measures that are appropriate to local circumstances and

the surrounding environment. Use water fog, fire fighting foam (suitable for polar

solvents), dry chemical, carbon dioxide (CO2) extinguisher or spray.

Unsuitable Media: CAUTION: Use of water spray when fighting fire may be inefficient.

**Specific Hazards Arising from** 

the Chemical:

Keep product and empty container away from heat and sources of ignition as product will burn. Contact with strong oxidizers may cause fire. Vapors may be ignited rapidly when exposed to heat, spark, open flame or other source of ignitions. Flowing product may be ignited by self-generated static electricity. When mixed with air and exposed to ignition source, flammable vapors can burn in the open or explode in confined spaces. Being heavier than air, vapors may travel long distances to an ignition source and flash back. Will float on water and can be reignited on the surface of water. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be

contained, prevented from being discharged to any waterway, sewer or drain and disposed

of in accordance with local regulations.

Hazardous Combustion Products: Combustion products may include the following: Carbon dioxide (CO2) Carbon

monoxide (CO), Nitrogen oxides and non-combusted hydrocarbons (smoke).

Protection of Fire Fighters: Promptly isolate the scene by removing all persons from the vicinity of the incident if

there is a fire. No action shall be taken involving any personal risk or without suitable training. As in any fire, wear self-contained breathing apparatus pressure-demand,

MSHA/NIOSH (approved or equivalent) and full protective gear.

#### Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training.

Evacuate surrounding areas. Keep unnecessary and unprotected personnel from

> entering. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Do not touch or walk through spilled material. Put on appropriate personal protective equipment. Floors may be slippery; use care to avoid falling.

#### For emergency responders:

Response and clean-up crews must be properly trained and must use proper protective equipment (see Section 8). Evacuate nonessential personnel and remove or secure all sources of ignition. Consider wind direction; stay upwind and uphill, if possible. Evacuate the direction of product travel, diking sewers, etc. to contain spill area. Spills may infiltrate subsurface soil and groundwater; professional assistance may be necessary to determine the extent of subsurface impact. If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. See also the information in "For non-emergency personnel".

#### **Environmental precautions:**

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers by diking, absorbents, or absorbent booms, if possible. The use of fire fighting foam may be useful in certain situations to reduce vapors. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). See Section 12 for ecological information.

#### Methods and materials for containment and cleaning up

**Small Spills:** Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in

an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**Large Spills:** Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses,

basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to

local regulations. Dispose of via a licensed waste disposal contractor.

NOTE: If RQ (Reportable Quantity) is exceeded or if spills enter a body of water, report immediately to the USEPA's National Response Center at (800) 424-8802. Check with your local and state regulators regarding their reporting requirements

## Section 7. Handling and Storage

#### Precautions for safe handling **Protective measures:**

USE ONLY AS A MOTOR FUEL. DO NOT SIPHON BY MOUTH. Handle as a flammable liquid. Keep away form head, sparks, and open flame! Bond and ground product transfer to reduce the possibility of static-initiation of fire or explosion. Eye protection and face shield

should be used if material is used under conditions that increase the chances of splattering. Put on appropriate personal protective equipment (see Section 8). Keep out of reach of

children.

Advice on general occupational hygiene:

Do not get in eyes, on skin or on clothing. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment

before entering eating areas.

See also Section 8 for additional information on hygiene measures.

#### Conditions for safe storage,

Including any incompatibilities: Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials, strong oxidizing agents (see Section 10) and food and drink. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep container tightly closed and sealed until ready for use. Carry out filling operations only out door or in an area with good ventilation/exhaustion at the workplace. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Use appropriate containment to avoid environmental contamination. Avoid contaminating soil or releases into sewage or drainage systems and bodies of water.

**Bulk material handling:** 

Static Hazard: Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be

necessary but may not, by themselves, be sufficient.

## **Section 8. Exposure Controls/Personal Protection**

Control parameters

**Occupational Exposure Limits** 

Chemical name	ACGIH		OSHA		NIOSH	
Chemical name	TLV TWA	STEL	PEL	STEL	TWA	STEL
Naphtha (petroleum), full-range alkylated, butane-contg.	200 ppm	No data				
Methylbutane (Isopentane)	600 ppm	No data				
Hydrocarbons, C4, 1,3-Butadiene-free, polymd., triisobuylene fraction, hydrogenated	No data					

**Appropriate engineering controls:** 

Use adequate ventilation to keep vapor concentration of this product below occupational exposure and flammable limits, particularly in confined spaces.

**Environmental exposure controls:** 

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures
Hygiene measures:

Keep away form foodstuffs, beverages and food. Wash hands, forearms and face thoroughly after handling product before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Avoid contact with the eyes and skin. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/Face Protection:** 

Wear safety glasses with side shields. A face shield or chemical goggles where

there is a possibility of splashing or spraying

Skin and Body Protection Hand protection:

Wear protective gloves if prolonged or repeated contact is likely. Wear chemical resistant gloves. Recommended: Nitrile. Always seek advice from your glove suppliers. Consult your supervisor or Standard Operating Procedure (SOP) for special handling instructions.

**Body protection:** 

None required for normal product use. For non-routine or spill response, chemical protective closing such as E.I DuPont TyChem® , Saranex® or equivalent recommend based on degree of exposure. For non-routine tasks, personal protection equipment for the body should be selected based on the task being performed and the risks involved.

Other skin protection:

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved.

**Respiratory protection:** 

No respiratory protection is normally required if used outdoors or in a well ventilated area. A NIOSH/MSHA approved air-purifying respirator with organic vapor cartridges or canister may be permissible under certain circumstances where airborne concentrations are or may exceed exposure limits of odor or irritation. Protection provided by air –purifying respirators is limited.

Use a positive pressure, air-supplied respirator if there is a potential for uncontrolled release, exposure levels are not known, in oxygen-deficient atmospheres, or any other circumstances where an air-purifying respirator may not provide adequate protection.

## **Section 9. Physical and Chemical Properties**

Appearance (Typical or Target)
Physical State: Liquid
Color: Light green

Odor: Petroleum distillates
Odor threshold: Not available
pH: Not applicable

**Boiling Point:** 35 to 180°C (95 to 356°F)

Flash Point (Closed cup): < -56°C (< -68.8°F) (Typical or Target)

Pour Point: Not determined Evaporation rate (Butyl acetate = 1): Not available

Flammability (solid, gas): Not applicable. Based on - Physical state

Flammable) Limit in Air

Lower Flammability Limit (LEL): 1.1%
Upper Flammability Limit (FEL): 6.0%
Vapor pressure at 50 °C: < 95 kPa
Vapor density (Air = 1): >1

Relative density at 20 °C: 0.7 g/cm3 (Typical or Target)
Solubility: Not miscible or difficult to mix

Partition coefficient (n-Octanol/water):

Auto-ignition temperature:

Decomposition temperature:

Viscosity – Kinematic (cSt (mm2/s) @ 40°C):

Viscosity – Dynamic (cSt (mm2/s) @ 100°C):

VOCContent:

Not available

Not available

Not determined

Not determined

98.0 g/l / 0.82 lb/gal

## Section 10. Stability and Reactivity

Reactivity: Not reactive under normal storage conditions
Chemical stability: Stable under normal storage conditions

Possibility of hazardous reactions: None under normal processing.

Hazardous polymerization: Hazardous polymerization does not occur.

**Conditions to avoid:** Heat, flames and sparks.

Incompatible materials: Oxidizing agents, Halogens, Halogenated compounds

Hazardous decomposition products: May include: Fumes, Oil vapors, Smoke, Carbon Oxides (including carbon monoxide

and carbon dioxide), Aldehydes, Nitrogen oxides, and incomplete combustion

products.

## **Section 11. Toxicological Information**

Information on toxicological effects

Basis for Assessment: Information given is based on product data, a knowledge of the components and the

toxicity of similar products.

Likely Routes of Exposure: Exposure may occur via inhalation, ingestion, skin absorption

#### Substance/Mixture

Acute Toxicity	Oral LD50	Dermal LD50	Inhalation LC50
Naphtha (petroleum), full-range	>5000 mg/kg (rat)	>2000 mg/kg (rabbit)	>5 mg// (rat)
alkylated, butane-contg. (68527-27-5)			-
Methylbutane (78-78-4)	>2000 mg/Kg (rat)	No data	>25.3 mg/L (rat) 4h
	(OECD 401)	ino data	(OECD 403)

Aspiration hazard: Aspiration hazard – Category 1.

**Skin Corrosion/Irritation:** Irritating to skin and mucus membranes.

Serious Eye Damage/Irritation: No irritating effect.

**Respiratory Irritation:** No further relevant information available.

**Skin Sensitization:** No sensitizing effect known.

**Respiratory Sensitization:** No further relevant information available.

**Specific Target Organ Toxicity** 

(Single Exposure) - STOT-SE: Category 3 High concentrations may cause central nervous system (CNS) depression

resulting in headaches, dizziness and nausea: continued inhalation may result in

unconsciousness and/or death. (Naphtha (petroleum), full-range aklylate, butane-contg.

Metylbutane,

Specific Target Organ Toxicity

(Repeated Exposure) - STOT-RE: No further relevant information available.

Carcinogenicity: No further relevant information available.

**Germ Cell Mutagenicity:** No further relevant information available.

Reproductive Toxicity: No further relevant information available.

## **Section 12. Ecological Information**

The information is based on data available for the material, the components of the material, and similar materials.

**Ecotoxicity:** Toxic to fish.

**Mobility:** No further relevant information available.

Soil/water partition coefficient (Koc):

No further relevant information available..

Persistence and degradation

Biodegradation: Not available.

**Bioaccumulative potential** 

Bioaccumulation: No further relevant information available.

Other adverse effects: No further relevant information available.

Other ecological information: Water hazard class 2 (manufacturer Self-assessment): hazardous to water. Do not

allow product to reach ground water, water bodies or sewage systems. Danger to drinking water if even small quantities leak into soil. Also, poisonous for fish and

plankton in water bodies. Toxic for aquatic organisms.

## **Section 13. Disposal Considerations**

Disposal recommendations based on material supplied.

Waste treatment methods: This material may be a hazardous waste according to Federal regulations (40 CFR 261).

Consult the appropriate state, regional, or local regulations for additional requirements. The

generation of waste should be avoided or minimized wherever possible.

Product waste: Significant quantities of waste product residues should not be disposed of via the sanitary

sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority

requirements.

Contaminated packaging: Empty containers or liners may retain some product residues and could pose a potential fire and

explosion hazard. Do not cut, puncture, or weld containers.

Other information: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and

sewers.

## **Section 14. Transport Information**

General information: Gasoline mixture.

	DOT Classification	IMDG	IATA
UN Number	UN 1203	UN 1203	UN 1203
Proper Shipping Name	Gasoline	Gasoline	Gasoline
Hazard class(s)	3	3	3
Packaging group	II	II	II

Environmental hazards	No	Yes	No
Marine Pollutant	Yes	Yes	-
Addition information	Limited Quantity:	The marine pollutant mark is	The environmentally
	Yes	not required when transported	hazardous substance mark
		in sized of ≤ 5L or ≤ 5 kg.	may appear if required by other
	<u>Packaging</u>		transportation regulations.
	instructions:	Emergency schedules	
	Passenger aircraft	(EmS):	Passenger and Cargo
	Quantity Limitation: 5 L	F-E, S-E	Aircraft:
			Quantity Limitation: 5 L
	Cargo Aircraft:	Limited Quantity (LQ): 1 L	Packaging instructions: 353
	Quantity Limitation: 60 L	Excepted Quantity (EQ)	
		Code E2	Cargo Aircraft Only:
	Special provisions	Maximum net quantity per	Quantity Limitation: 60 L
	144, 177, B1, B33, IB2, T8	inner packaging: 30 ml	Packaging instructions: 364
		Maximum net quantity per	
	Remarks:	outer packaging: 500 ml	<u>Limit Quantity – Passenger</u>
	May be classed as a		Aircraft:
	Consumer Commodity,	Special provisions:	Quantity Limitation: 1L
	ORM-D for Small	243	Packaging instructions: Y341
	Packages, see		
	49CFR173.150		Special provisions:
			A100

**Special precautions for user:** 

Transport within user's premises: Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

## **Section 15. Regulatory Information**

**United States Regulations** 

United States Inventory (TSCA 8b): All components are listed or exempted.

SARA 302/304: No products were found.

SARA 311/312: Immediate (Acute) Health Effects: Yes

Delayed (Chronic) Health Effects: Yes Fire Hazard: Yes Sudden Release of Pressure Hazard: No Reactivity Hazard: No

**SARA 313**:

The following components of this material are found on the EPCRA 313 list:

None

Supplier notification: This product does not contain any hazardous ingredients at or above regulated

thresholds.

CWA (Clean Water Act): This product does not contain any substances regulated as pollutants pursuant to the

Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA: This material, as supplied, does not contain any substances regulated as a hazardous

substance under the Comprehensive Environmental Response Compensation and Liability

Act (CERCLA) (40 CFR 302).

State Regulations

Massachusetts: The following components are listed: None

**New Jersey:** The following components are listed: Methy Ibutane

New York: The following components are listed: None Pennsylvania: The following components are listed: None

California Proposition 65: WARNING: This product does not contain any chemical known to the State of California to

cause cancer or to cause birth defects.

### Section 16. Other Information

NFPA Rating:	Health Hazard - 1	Flammability – 3	Instability/Reactivity - 0
HMIS Rating:	Health Hazard - 1	Flammability – 3	Physical Hazards - 0

(NFPA & HMIS Hazard Rating Key: 0 - Minimum Hazard; 1 - Slight Hazard; 2 - Moderate Hazard; 3 - High Hazard; 4 - Extreme Hazard; \*- Chronic Hazard Indicator, & PPE - Personal Protective Equipment Index A to L. These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS or Hazardous Material Identification System).

#### Key to abbreviations:

OSHA = Occupational Safety and Health Administration ACGIH= American Conference of Industrial Hygienists ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service Registry Number

cSt = Centistroke (mm2/s)

GHS = Global Harmonized System of Classification and Labeling Of Chemicals.

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

OEL = Occupational Exposure Limit

SDS = Safety Data Sheet STEL = Short term exposure Limit

STOT-SE=Specific Target Organ Toxicity-Single Exposure

STOT-RE=Specific Target Organ Toxicity-Repeated Exposure

UN = United Nations

UN Number = United Nations Number, a four digit number assigned by the United Nations Committee of Experts on

the Transportation of Dangerous Goods

Prepared By: OMNI Specialty Packaging EH&S Department

Revision Date: November 29, 2016

Status: Final

Revision Note: Revision 002 – Addition of new 32 oz Part Number

Consumer Product Improvement Act of 2008, General Conformity Certification

For Consumer Product Packages: This product has been evaluated and is certified to be labeled and packaged in compliance with the applicable provisions of the Federal Hazardous Substance Act as stated in 16 CFR 1500 and enforced by the Consumer Product Safety Commission. Where applicable the products that require Child Resistant Closures are packaged in accordance with the Poison Prevention Packaging Act as stated in 16 CFR 1700 and enforced by the Consumer Product Safety Commission. All closures have been tested in accordance with the latest protocols. No testing is required to certify compliance with the provisions. The date of the manufacturing is stamped on the product container.

#### **Disclaimer**

All reasonably practicable steps have been taken to ensure the information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This information is furnished upon condition that the person receiving it shall make their own determination of the suitability of the material for their particular purpose.

**End of Safety Data Sheet** 

according to Hazard Communication Standard; 29 CFR 1910.1200



# SCRUBBING BUBBLES® BATHROOM CLEANER FOAMER WITH COLOR POWER

Version 1.1 Print Date 03/04/2015

Revision Date 02/24/2015 SDS Number 350000017666

#### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product information** 

Product name : SCRUBBING BUBBLES® BATHROOM CLEANER FOAMER

WITH COLOR POWER

Recommended use : Hard Surface Cleaner

Manufacturer, importer,

supplier

S.C. Johnson & Son, Inc. 1525 Howe Street

Racine WI 53403-2236

**Telephone** : +18005585252

Emergency telephone

number

24 Hour Medical Emergency Phone: (866)231-5406 24 Hour International Emergency Phone: (703)527-3887 24 Hour Transport Emergency Phone: (800)424-9300

#### 2. HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

Globally Harmonized System (GHS) Classification

Hazard classification	Hazard category	Hazards identification
Aerosol	Category 1	Extremely flammable aerosol.
Gases under pressure	Liquefied gas	Contains gas under pressure;
		may explode if heated.

#### Labelling

### **Hazard symbols**

Flame

Gas cylinder

#### Signal word

Danger

#### **Hazard statements**

Extremely flammable aerosol.

Contains gas under pressure; may explode if heated.

#### **Precautionary statements**

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

Protect from sunlight. Store in a well-ventilated place.

according to Hazard Communication Standard; 29 CFR 1910.1200



# SCRUBBING BUBBLES® BATHROOM CLEANER FOAMER WITH COLOR POWER

Version 1.1 Print Date 03/04/2015

Revision Date 02/24/2015 SDS Number 350000017666

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Do not spray on an open flame or other ignition source.

Do not pierce or burn, even after use.

Other hazards : None identified

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Weight percent
Isobutane	75-28-5	5.00 - 10.00
Diethylene glycol monobutyl ether	112-34-5	5.00 - 10.00
Disodium ethanoldiglycinate	135-37-5	1.00 - 5.00

The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

For additional information on product ingredients, see www.whatsinsidescjohnson.com.

#### 4. FIRST AID MEASURES

**Eye contact** : No special requirements

**Skin contact** : No special requirements

**Inhalation** : No special requirements.

**Ingestion** : No special requirements

#### 5. FIREFIGHTING MEASURES

Suitable extinguishing

media

: Use water spray, alcohol-resistant foam, dry chemical or

carbon dioxide.

Specific hazards during

firefighting

: Aerosol Product - Containers may rocket or explode in heat of

fire.

**Further information** : Fight fire from maximum distance or protected area. Cool and

use caution when approaching or handling fire-exposed containers. Wear full protective clothing and positive pressure

according to Hazard Communication Standard; 29 CFR 1910.1200



# SCRUBBING BUBBLES® BATHROOM CLEANER FOAMER WITH COLOR POWER

Version 1.1 Print Date 03/04/2015

Revision Date 02/24/2015 SDS Number 350000017666

self-contained breathing apparatus. In case of fire and/or

explosion do not breathe fumes.

#### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions** : Remove all sources of ignition.

Wash thoroughly after handling.

Environmental precautions

: Outside of normal use, avoid release to the environment.

Methods and materials for containment and

cleaning up

: If damage occurs to aerosol can:

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local /

national regulations (see section 13). Use only non-sparking equipment.

Dike large spills.

Clean residue from spill site.

#### 7. HANDLING AND STORAGE

Handling

Precautions for safe

handling

: Avoid contact with skin, eyes and clothing. For personal protection see section 8.

Use only as directed.

KEEP OUT OF REACH OF CHILDREN AND PETS.

Pressurized container.

Do not pierce or burn, even after use.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.

Do not spray on an open flame or other ignition source.

Storage

Requirements for storage areas and containers

Protect from sunlight. Do not expose to temperatures

exceeding 50 °C/ 122 °F.

Keep in a dry, cool and well-ventilated place.

according to Hazard Communication Standard; 29 CFR 1910.1200



# SCRUBBING BUBBLES® BATHROOM CLEANER FOAMER WITH COLOR POWER

Version 1.1 Print Date 03/04/2015

Revision Date 02/24/2015 SDS Number 350000017666

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Occupational Exposure Limits**

Components	CAS-No.	mg/m3	ppm	Non- standard units	Basis
Isobutane	75-28-5	-	1,000 ppm	-	ACGIH STEL
Diethylene glycol monobutyl ether	112-34-5	-	35 ppm	-	SUPPLIER
Diethylene glycol monobutyl ether	112-34-5	-	10 ppm	-	ACGIH TWA

### Personal protective equipment

**Respiratory protection** : No special requirements.

**Hand protection** : No special requirements.

**Eye protection** : No special requirements.

**Skin and body protection** : No special requirements.

**Hygiene measures** : Handle in accordance with good industrial hygiene and safety

practice. Wash thoroughly after handling.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Form : aerosol

compressed liquefied gas

Color : blue dark

Odor : pleasant

Odour Threshold : No data available

according to Hazard Communication Standard; 29 CFR 1910.1200



## SCRUBBING BUBBLES® BATHROOM CLEANER FOAMER WITH COLOR **POWER**

Version 1.1 Print Date 03/04/2015

Revision Date 02/24/2015 SDS Number 350000017666

pН : 12.6

Melting point/freezing point : 32 °F

Initial boiling point and

boiling range

: No data available

: -7 °C Flash point

19.4 °F Propellant

**Evaporation rate** : No data available

Flammability (solid, gas) : No data available

Upper/lower flammability or : No data available

explosive limits

: No data available Vapour pressure

: No data available Vapour density

Relative density : No data available

Solubility(ies) > 0.00000 g/l

dispersible

Partition coefficient: n-

octanol/water

: No data available

Auto-ignition temperature : No data available

**Decomposition temperature** : No data available

according to Hazard Communication Standard; 29 CFR 1910.1200



# SCRUBBING BUBBLES® BATHROOM CLEANER FOAMER WITH COLOR POWER

Version 1.1 Print Date 03/04/2015

Revision Date 02/24/2015 SDS Number 350000017666

Viscosity, dynamic : No data available

Viscosity, kinematic : similar to water

Oxidizing properties : No data available

Volatile Organic Compounds Total VOC (wt. %)\* : 6.1 % - additional exemptions may apply

\*as defined by US Federal and State Consumer Product

Regulations

Other information : None identified

#### 10. STABILITY AND REACTIVITY

Possibility of hazardous

reactions

: If accidental mixing occurs and toxic gas is formed, exit area

immediately. Do not return until well ventilated.

Conditions to avoid : Heat, flames and sparks.

**Incompatible materials** : Strong oxidizing agents

Do not mix with bleach or any other household cleaners.

Strong bases

Hazardous decomposition

products

: Thermal decomposition can lead to release of irritating gases

and vapours.

#### 11. TOXICOLOGICAL INFORMATION

**Emergency Overview** : Danger

Acute oral toxicity : No data available
Acute inhalation toxicity : No data available

according to Hazard Communication Standard; 29 CFR 1910.1200



# SCRUBBING BUBBLES® BATHROOM CLEANER FOAMER WITH COLOR POWER

Version 1.1 Print Date 03/04/2015

Revision Date 02/24/2015 SDS Number 350000017666

Acute dermal toxicity : No data available

GHS Properties	Classification	Routes of entry
Acute toxicity	No classification proposed	-
Skin corrosion/irritation	No classification proposed	-
Serious eye damage/eye irritation	No classification proposed	-
Skin sensitisation	No classification proposed	-
Respiratory sensitisation	No classification proposed	-
Germ cell mutagenicity	No classification proposed	-
Carcinogenicity	No classification proposed	-
Reproductive toxicity	No classification proposed	-
Specific target organ toxicity - single exposure	No classification proposed	-
Specific target organ toxicity - repeated exposure	No classification proposed	-
Aspiration hazard	No classification proposed	-

Aggravated Medical

Condition

: None known.

### 12. ECOLOGICAL INFORMATION

**Product :** The product itself has not been tested.

### **Toxicity**

The ingredients in this formula have been reviewed and no adverse impact to the environment is expected when used according to label directions.

#### Toxicity to fish

Components	End point	Species	Value	Exposure

according to Hazard Communication Standard; 29 CFR 1910.1200



# SCRUBBING BUBBLES® BATHROOM CLEANER FOAMER WITH COLOR POWER

Version 1.1 Print Date 03/04/2015

Revision Date 02/24/2015 SDS Number 350000017666

				time
Isobutane	LC50	Fish	27.98 mg/l	96 h
Diethylene glycol monobutyl ether	static test LC50	Lepomis macrochirus (Bluegill sunfish)	1,300 mg/l	96 h
Disodium ethanoldiglycinate	No data available			

### Toxicity to aquatic invertebrates

Components	End point	Species	Value	Exposure time
Isobutane	LC50	Daphnid	16.33 mg/l	48 h
Diethylene glycol monobutyl ether	static test EC50	Daphnia magna (Water flea)	> 100 mg/l	48 h
Disodium ethanoldiglycinate	No data available			

### Toxicity to aquatic plants

Components	End point	Species	Value	Exposure time
Isobutane	EC50	Green algea	8.57 mg/l	96 h
Diethylene glycol monobutyl ether	Growth inhibition EC50	Desmodesmus subspicatus (green algae)	> 100 mg/l	96 h

according to Hazard Communication Standard; 29 CFR 1910.1200



# SCRUBBING BUBBLES® BATHROOM CLEANER FOAMER WITH COLOR POWER

Version 1.1 Print Date 03/04/2015

Revision Date 02/24/2015 SDS Number 350000017666

Disodium ethanoldiglycinate	No data		
	available		

Persistence and degradability

Component	Biodegradation	Exposure time	Summary
Isobutane	70 %	< 10 d	Readily biodegradable
Diethylene glycol monobutyl ether	80 - 90 %	28 d	Readily biodegradable
Disodium ethanoldiglycinate	No data available		

### **Bioaccumulative potential**

Component	Bioconcentration factor (BCF)	Partition Coefficient n- Octanol/water (log)
Isobutane	1.57 - 1.97	2.8
Diethylene glycol monobutyl ether	1.12 estimated	1
Disodium ethanoldiglycinate	No data available	No data available

### Mobility

Component	End point	Value
Isobutane	No data available	
Diethylene glycol monobutyl ether	No data available	
Disodium ethanoldiglycinate	No data available	

#### PBT and vPvB assessment

Component	Results
Isobutane	Not fulfilling PBT and vPvB criteria
Diethylene glycol monobutyl ether	Not fulfilling PBT and vPvB criteria
Disodium ethanoldiglycinate	Not fulfilling PBT and vPvB criteria

Other adverse effects : None known.

according to Hazard Communication Standard; 29 CFR 1910.1200



# SCRUBBING BUBBLES® BATHROOM CLEANER FOAMER WITH COLOR POWER

Version 1.1 Print Date 03/04/2015

Revision Date 02/24/2015 SDS Number 350000017666

#### 13. DISPOSAL CONSIDERATIONS

Consumer may discard empty container in trash, or recycle where facilities exist.

#### 14. TRANSPORT INFORMATION

Please refer to the Bill of Lading/receiving documents for up-to-date shipping information.

	Land transport	Sea transport	Air transport
UN number	1950	1950	1950
UN proper	AEROSOLS,	AEROSOLS,	AEROSOLS,
shipping name	Flammable, 2.1	Flammable, 2.1	Flammable, 2.1
Transport hazard	2.1	2	2.1
class(es)			
Packing group	-	-	-
Environmental	-	-	-
hazards			
Special	Limited quantities	Limited quantities	Limited quantities
precautions for	derogation may be	derogation may be	derogation may be
user	applicable to this	applicable to this	applicable to this
	product, please check	product, please	product, please check
	transport documents.	check transport	transport documents.
		documents.	

#### 15. REGULATORY INFORMATION

Notification status : All ingredients of this product are listed or are excluded from

listing on the U.S. Toxic Substances Control Act (TSCA)

Chemical Substance Inventory.

Notification status : All ingredients of this product comply with the New Substances

Notification requirements under the Canadian Environmental

Protection Act (CEPA).

according to Hazard Communication Standard; 29 CFR 1910.1200



# SCRUBBING BUBBLES® BATHROOM CLEANER FOAMER WITH COLOR POWER

Version 1.1 Print Date 03/04/2015

Revision Date 02/24/2015 SDS Number 350000017666

California Prop. 65 : This product is not subject to the reporting requirements under

California's Proposition 65.

.

#### 16. OTHER INFORMATION

#### **HMIS Ratings**

riiviio italiilys	
Health	1
Flammability	4
Reactivity	0

## **NFPA Ratings**

Ni i A Natiligs	
Health	1
Fire	4
Reactivity	0
Special	-

This information is being provided in accordance with the Occupational Safety and Health Administration (OSHA) regulation (29 CFR 1910.1200). The information supplied is designed for workplaces where product use and frequency of exposure exceeds that established for the labeled consumer use.

#### Further information

This document has been prepared using data from sources considered to be technically reliable. It does not constitute a warranty, expressed or implied, as to the accuracy of the information contained herein. Actual conditions of use are beyond the seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.

according to Hazard Communication Standard; 29 CFR 1910.1200



# SCRUBBING BUBBLES® BATHROOM CLEANER FOAMER WITH COLOR POWER

Version 1.1 Print Date 03/04/2015

Revision Date 02/24/2015 SDS Number 350000017666

Prepared by	SC Johnson Global Safety Assessment &
	Regulatory Affairs (GSARA)

Version No. 13000-24A Issue Date: March 12, 2024 Supersedes Date: January 1, 2023 OSHA HCS-2012 / GHS

### **Section 1: IDENTIFICATION**

**Product Name:** Simple Green® All-Purpose Cleaner

**Additional Names:** 

**Manufacturer's Part Number:** \*Please refer to Section 16

**Recommended Use:** Cleaner & Degreaser for water tolerant surfaces.

**Restrictions on Use:** Do not use on non-rinseable surfaces.

Company: Sunshine Makers, Inc. Telephone: 800-228-0709 ● 562-795-6000 Mon – Fri, 8am – 5pm PST

15922 Pacific Coast Highway **Fax:** 562-592-3830

Huntington Beach, CA 92649 USA **Email:** info@simplegreen.com

**Emergency Phone:** Chem-Tel 24-Hour Emergency Service: 800-255-3924

### Section 2: HAZARDS IDENTIFICATION

This product is not considered hazardous under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

OSHA HCS 2012

Label Elements

Signal Word: None Hazard Symbol(s)/Pictogram(s): None required

**Hazard Statements:** None **Precautionary Statements:** None

Hazards Not Otherwise Classified (HNOC): None

Other Information: None Known

#### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredient</u>	<b>CAS Number</b>	Percent Range
Water	7732-18-5	> 85.000%*
Surfactant	Proprietary	< 5.000%*
C9-11 Alcohols Ethoxylated	68439-46-3	< 5.000%*
Tetrasodium Glutamate Diacetate	51981-21-6	< 2.000%*
Sodium Bicarbonate	144-55-8	< 1.000%*
Hydrochloric Acid	7647-01-0	< 1.000%*
Fragrances	Proprietary Mixture	< 1.000%*
Blend of Polyoxyalkylene Substituted Chromophores (Cyan and Yellow)	Proprietary Mixture	< 0.100%*
Anethole	104-46-1	< 0.100%*
Eucalyptol	470-82-6	< 0.100%*
Methylchloroisothiazolinone	26172-55-4	< 0.001%*
Methylisothiazolinone	2682-20-4	< 0.0001%*

<sup>\*</sup>specific percentages of composition are being withheld as a trade secret

### **Section 4: FIRST-AID MEASURES**

Inhalation: Not expected to cause respiratory irritation. If adverse effect occurs, move to fresh air.
 Skin Contact: Not expected to cause skin irritation. If adverse effect occurs, rinse skin with water.
 Eye Contact: Not expected to cause eye irritation. If adverse effect occurs, flush eyes with water.

Ingestion: May cause upset stomach. Drink plenty of water to dilute. See section 11.

Most Important Symptoms/Effects, Acute and Delayed: None known.

Indication of Immediate Medical Attention and Special Treatment Needed, if necessary: Treat symptomatically

Version No. 13000-24A Issue Date: March 12, 2024 Supersedes Date: January 1, 2023 OSHA HCS-2012 / GHS

## Section 5: FIRE-FIGHTING MEASURES

Suitable & Unsuitable Extinguishing Media: Use Dry chemical, CO2, water spray or "alcohol" foam. Avoid high volume jet water.

**Specific Hazards Arising from Chemical:** In event of fire, fire created carbon oxides may be formed.

Special Protective Actions for Fire-Fighters: Wear positive pressure self-contained breathing apparatus; Wear full protective

clothing.

This product is non-flammable. See Section 9 for Physical Properties.

## Section 6: ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment and Emergency Procedures:** For non-emergency and emergency personnel: See section 8 – personal protection. Avoid eye contact. Safety goggles suggested.

Environmental Precautions: Do not allow into open waterways and ground water systems.

Methods and Materials for Containment and Clean Up: Dike or soak up with inert absorbent material. See section 13 for disposal considerations.

#### Section 7: HANDLING AND STORAGE

**Precautions for Safe Handling:** Ensure adequate ventilation. Keep out of reach of children. Keep away from heat, sparks, open flame and direct sunlight. Do not pierce any part of the container. Do not mix or contaminate with any other chemical. Do not eat, drink or smoke while using this product.

**Conditions for Safe Storage including Incompatibilities:** Keep container tightly closed. Keep in cool dry area. Avoid prolonged exposure to sunlight. Do not store at temperatures above 109°F (42.7°C). If separation occurs, mix the product for reconstitution.

#### Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Limit Values:** No components listed with TWA or STEL values under OSHA or ACGIH.

**Appropriate Engineering Controls:** Showers, eyewash stations, ventilation systems

#### Individual Protection Measures / Personal Protective Equipment (PPE)

Eye Contact: Use protective glasses or safety goggles if splashing or spray-back is likely.

Respiratory: Use in well ventilated areas or local exhaust ventilations when cleaning small spaces.

Skin Contact: Use protective gloves (any material) when used for prolonged periods or dermally sensitive.

General Hygiene Considerations: Wash thoroughly after handling and before eating or drinking.

#### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Green		iquid	Partition Coefficient: n-octanol/water:		Not determine	ed	
Odor:	Added sassafras odor Autoignition Temperature:		Non-flammable				
Odor Threshold:	Threshold: Not determined Decomposition Temperature:		42.7°C (109°F)				
pH:	8.5 – 9.5 <b>Viscosity:</b> Like water		Like water				
Freezing Point: 0-3.33°C (32-38°F) Specific Gravit		Specific Gravity:			1.00 - 1.03		
Boiling Point & Range:	Range: 101°C (213.8°F)		VOCs: **Wa	ter & fragr	ance	exemption in cal	culation
Flash Point:	> 212°F		SCAQMD 304-91 / EPA 24: 0 g/L 0 lb/gal		0 lb/gal	0%	
<b>Evaporation Rate:</b>	Not det	ermined	CARB Method 310**:	<5 §	g/L	<0.0417lb/gal	<0.5%
Flammability (solid, gas): Not applicable		SCAQMD Method 313:	Not t	estec	I		
Upper/Lower Flammability or Explosive Limits: Not applicable		Not applicable	<b>VOC Composite Partial</b>	Pressure:	Not	determined	

Safety Data Sheet: Simple Green® All-Purpose Cleaner

Version No. 13000-24A Issue Date: March 12, 2024 Supersedes Date: January 1, 2023 OSHA HCS-2012 / GHS

### Section 9: PHYSICAL AND CHEMICAL PROPERTIES - continued

Vapor Pressure: 0.60		SI @77°F, 2.05 PSI @100°F	Relative Density:	8.34 – 8.59 lb/gal
Vapor Density:		Not determined	Solubility:	100% in water

### Section 10: STABILITY AND REACTIVITY

**Reactivity:** Non-reactive.

Chemical Stability: Stable under normal conditions 70°F (21°C) and 14.7 psig (760 mmHg).

**Possibility of Hazardous Reactions:** None known.

**Conditions to Avoid:** Excessive heat or cold.

**Incompatible Materials:** Do not mix with oxidizers, acids, bathroom cleaners, or disinfecting agents.

**Hazardous Decomposition Products:** Normal products of combustion - CO, CO2.

#### Section 11: TOXICOLOGICAL INFORMATION

**Likely Routes of Exposure:** Inhalation - Overexposure may cause headache.

Skin Contact - Not expected to cause irritation, repeated contact may cause dry skin.

Eye Contact - Not expected to cause irritation. Ingestion - May cause upset stomach.

Symptoms related to the physical, chemical and toxicological characteristics: no symptoms expected under typical use conditions. Delayed and immediate effects and or chronic effects from short term exposure: no symptoms expected under typical use conditions. Delayed and immediate effects and or chronic effects from long term exposure: headache, dry skin, or skin irritation may occur. Interactive effects: Not known.

#### **Numerical Measures of Toxicity**

**Acute Toxicity:** Oral LD<sub>50</sub> (rat) > 5 g/kg body weight

Dermal LD<sub>50</sub> (rabbit) > 5 g/kg body weight

Calculated via OSHA HCS 2012 / Globally Harmonized System of Classification and Labelling of Chemicals

Skin Corrosion/Irritation: Non-irritant per Dermal Irritection® assay modeling. No animal testing performed. Eye Damage/Irritation: Non-irritant per Ocular Irritection® assay modeling. No animal testing performed.

Germ Cell Mutagenicity: Mixture does not classify under this category.
Carcinogenicity: Mixture does not classify under this category.
Reproductive Toxicity: Mixture does not classify under this category.
STOT-Single Exposure: Mixture does not classify under this category.
STOT-Repeated Exposure: Mixture does not classify under this category.
Aspiration Hazard: Mixture does not classify under this category.

## Section 12: ECOLOGICAL INFORMATION

**Ecotoxicity:** Volume of ingredients used does not trigger toxicity classifications under the Globally Harmonized System of

Classification and Labelling of Chemicals.

Aquatic: Aquatic Toxicity - Low, based on OECD 201, 202, 203 + Microtox: EC<sub>50</sub> & IC<sub>50</sub> ≥100 mg/L. Volume of ingredients used

does not trigger toxicity classifications under the Globally Harmonized System of Classification and Labelling of

Chemicals.

**Terrestrial:** Not tested on finished formulation.

Page 3 of 5

Safety Data Sheet: Simple Green® All-Purpose Cleaner

Version No. 13000-24A Issue Date: March 12, 2024 Supersedes Date: January 1, 2023 OSHA HCS-2012 / GHS

### Section 12: ECOLOGICAL INFORMATION - continued

Persistence and Degradability: Readily Biodegradable per OCED 301D, Closed Bottle Test. Reaches 100% biodegradation within

60 days.

Bioaccumulative Potential:No data available.Mobility in Soil:No data available.Other Adverse Effects:No data available.

### Section 13: DISPOSAL CONSIDERATIONS

**Unused or Used Liquid:** May be considered hazardous in your area depending on usage and tonnage of disposal – check with local, regional, and or national regulations for appropriate methods of disposal.

Empty Containers: May be offered for recycling.

Never dispose of used degreasing rinsates into lakes, streams, and open bodies of water or storm drains.

#### Section 14: TRANSPORT INFORMATION

**U.N. Number:** Not applicable

U.N. Proper Shipping Name: Cleaning Compound, Liquid NOI

Transport Hazard Class(es): Not applicable
Packing Group: Not applicable
Environmental Hazards: Marine Bollutant

**Environmental Hazards:** Marine Pollutant - NO

Transport in Bulk (according to Annex II of MARPOL 73/78 and IBC Code): Unknown.

Special precautions which user needs to be aware of/comply with, in connection None known.

with transport or conveyance either within or outside their premises:

U.S. (DOT) / Canadian TDG: Not Regulated for shipping. ICAO/ IATA: Not classified as Hazardous IMO / IDMG: Not classified as Hazardous ADR/RID: Not classified as Hazardous

### Section 15: REGULATORY INFORMATION

All components are listed on: TSCA and DSL Inventory.

**SARA Title III:** Sections 311/312 Hazard Categories – Not applicable.

Sections 313 Superfunds Amendments and Reauthorizations Act of 1986 – Not applicable.

Sections 302 – Not applicable.

<u>Clean Air Act (CAA):</u> Not applicable <u>Clean Water Act (CWA):</u> Not applicable

<u>State Right To Know Lists:</u> No ingredients listed <u>California Proposition 65:</u> No ingredients listed

This product has been classified as "not classifiable as hazardous" in accordance with Consumer Product Safety Commission (16 CFR Chapter 2) and labelled and packaged accordingly.

#### **US Consumer Product Safety Commission Regulations**

This product is labeled in accordance with regulations administered by the Consumer Product Safety Commission (CPSC). However, the use pattern and exposure in the workplace are generally not consistent with those experienced by consumers. Therefore, the requirements of the Occupational Safety and Health Administration applicable to this SDS differ from the labeling requirements of the CPSC, and this SDS may contain additional health hazard information not pertinent to consumer use and not found on the product label.

Version No. 13000-24A Issue Date: March 12, 2024 Supersedes Date: January 1, 2023

## **Section 16: OTHER INFORMATION**

<u>Size</u>	<u>UPC</u>	<u>Size</u>	<u>UPC</u>
2 fl. oz.	043318131035	67.6 fl. oz.	043318000393
4 fl. oz.	043318130014	67.6 fl. oz.w/ dilution bottle	043318005442
16 fl. oz.	043318130021	140 fl. oz.	043318001390
22 fl. oz.	043318130229	140 fl. oz. w/ dilution bottle	043318001468
24 fl. oz.	043318006241	1 gallon	043318000799
24 fl. oz.	043318130137	1 gallon	043318004957
32 fl. oz.	043318000652	1 gallon	043318130052
32 fl. oz.	043318002557	1 gallon w/ dilution bottle	043318480416
32 fl. oz.	043318130335	1 gallon w/ dilution bottle	043318480492
67.6 fl. oz.	043318130144	2.5 gallon	043318004889

USA items listed only. Not all items listed. USA items may not be valid for international sale.

#### NFPA:

Health – None Stability – Stable Flammability – Non-flammable Special - None



#### **Acronyms**

NTP National Toxicology Program IARC International Agency for Research on Cancer OSHA Occupational Safety and Health Administration CPSC Consumer Product Safety Commission TSCA Toxic Substances Control Act DSL Domestic Substances List

**Prepared / Revised By:** Sunshine Makers, Inc., Regulatory Department.

This SDS has been revised in the following sections: Updated chemical properties in Section 9.

**DISCLAIMER**: The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

\*

OSHA HCS-2012 / GHS

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

Version MSPRT.001



#### **SECTION 1: IDENTIFICATION**

## 1.1. Product Identifier

**Product Form:** Mixture

**Product Name:** SuperS Mineral Spirits **Product Code:** SUS.MSPRT.1275.690

Synonyms: none

#### 1.2. Intended Use of the Product

Petrochemical industry: Petroleum refining. Solvent.

### 1.3. Name, Address, and Telephone of the Responsible Party

#### Company

Smitty's Supply, Inc. PO BOX 530

Roseland, LA 70456

985-748-8214 www.smittysinc.net

#### 1.4. Emergency Telephone Number

Emergency Number : 1-800-424-9300, CHEMTREC

#### **SECTION 2: HAZARDS IDENTIFICATION**

#### 2.1. Classification of the Substance or Mixture

#### Classification (GHS-US)

Flammable Liquids, 3	H226
Skin Irritation, 2	H315
Toxic to Reproduction (unborn child), 2	H361
Specific Target Organ Toxicity (single Exposure) (narcotic effects), 3	H336
Aspiration Hazard, 1	H304
Aquatic Hazard (long-term), 2	H411

Full text of H-phrases: see section 16

#### 2.2. Label Elements

**GHS-US Labeling** 

Hazard Pictograms (GHS-US)



Signal Word (GHS-US) : Danger

Hazard Statements (GHS-US) : H226: Flammable liquid and vapor

H315: Causes skin irritation

H361: Suspected of damaging the unborn child H336: May cause drowsiness and dizziness

H304: May be fatal if swallowed and enters airways H411: Toxic to aquatic life with long lasting effects

Precautionary Statements (GHS-US) : Prevention

P201, P202, P261, P271, P210, P233, P240, P241, P242, P243, P273 P280, P264: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing mist/vapors. Use only outdoors or in well-ventilated area. Keep away from heat/sparks/open flames/hot surfaces. No Smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use of explosion proof electrical/ventilating/lighting/equipment. Only use non sparking tools. Take precautionary measures against static discharge. Page 1 of 12

05/11/2015

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

Version MSPRT.001



Cont.

Precautionary Statements (GHS-US) : Avoid release to the environment. Wear protective gloves/eye protection/face protection/ clothing. Wash hands thoroughly after handling.

P308 + P313, P303 + P361 + P353, P302 + P352, P332 + P313, P362 + P364, P304 + P340, P301 + P310, P331, P370 + P378, P312, P321, P391 : If exposed or concerned: Get medical advice/attention. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of water and soap. Rinse thoroughly. Wash all contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. IF INHALED: Remove person to fresh air keep comfortable for breathing. IF SWALLOWED: Immediately call POISION CENTER. Do not induce vomiting. In case of fire: Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam to extinguish. Call POISION CENTER if you feel unwell. Bring label with you when available. Collect Spillage.

#### Storage

P403 + P235, P402 + P233, P405: Store in well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

#### Disposal

P501: Dispose of contents/container in accordance with all local/regional / national/international regulations.

#### 2.3. **Other Hazards**

None Known

#### 2.4. **Unknown Acute Toxicity (GHS-US)**

### **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

#### **Substances** 3.1.

Name	Product Identifier	% (w/w)	Classification (GHS-US)
Solvent naptha (petroleum), medium aliph.	(CAS No) 64742-88-7	86 - 96	Flammable Liquids, 3: H226 Specific Target Organ Toxicity (single Exposure) (narcotic effects), 3: H336 Aspiration Hazard, 1: H304
Xylene	(CAS No) 1330-20-7	1-3	Flammable Liquids, 3: H226 Skin irritation, 2: H315 Aquatic Hazard (long-term), 2: H411
Toluene	(CAS No) 108-88-3	0.3 - 1	Flammable Liquids, 1: H224 Skin Irritation, 2: H315 Toxic to Reproduction (unborn child), 2: H361

<sup>\*</sup>The specific chemical identity and/or exact percentage of composition have been withheld as a trade secret within the meaning of the OSHA Hazard Communication Standard [29 CFR 1910.1200].

#### 3.2. **Mixture**

**Not Applicable** 

Full text of H-phrases: see section 16

#### **SECTION 4: FIRST AID MEASURES**

#### 4.1. **Description of First Aid Measures**

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible). Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouthto-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin Contact: Wash skin thoroughly with soap and water or recognized skin cleanser. Continue to rinse for at least 10 minutes. Repart of 12

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

Version MSPRT.001



contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Eye Contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 15 minutes. Get medical attention.

Ingestion: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

#### 4.2. Most Important Symptoms and Effects Both Acute and Delayed

General: see below

Inhalation: Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness. nausea or vomiting, headache, drowsiness/fatigue, unconsciousness, reduced fetal weight, increase in fetal deaths, skeletal malformations.

Skin Contact: Causes skin irritation, redness, reduced fetal weight, increase in fetal deaths, skeletal malformations.

Eve Contact: Pain or irritation, watering, redness

Ingestion: Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways. nausea or vomiting, reduced fetal weight, increase in fetal deaths, skeletal malformations

Chronic Symptoms: No known significant effects or critical hazards.

#### Indication of Any Immediate Medical Attention and Special Treatment Needed 4.3.

If you feel unwell, seek medical advice (show the label where possible).

#### SECTION 5: FIRE-FIGHTING MEASURES

#### **Extinguishing Media** 5.1.

Suitable Extinguishing Media: Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

Unsuitable Extinguishing Media: Do not use water jet

#### 5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**Explosion Hazard:** Product is an explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

#### 5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire. Under fire conditions, hazardous fumes will be present.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection. Hazardous Combustion Products: Under fire conditions, may produce fumes, smoke, oxides of carbon and hydrocarbons.

Other Information: Refer to Section 9 for flammability properties.

**Reference to Other Sections** 

Refer to section 9 for flammability properties.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid all contact with skin, eyes, or clothing. Avoid breathing (vapor, mist, spray).

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

**For Emergency Personnel** 

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Stop leak if safe to do so. Eliminate ignition sources. Ventilate area.

#### **Environmental Precautions**

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

05/11/2015 EN (English US) Page 3 of 12

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

Version MSPRT.001



#### 6.3. Methods and Material for Containment and Cleaning Up

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. **Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Spills should be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

#### 6.4. Reference to Other Sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

#### SECTION 7: HANDLING AND STORAGE

#### 7.1. Precautions for Safe Handling

Additional Hazards When Processed: Put on appropriate personal protective equipment (see Section 8). Do not swallow. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

#### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Comply with applicable regulations.

**Storage Conditions:** Store in a dry, cool and well-ventilated place. Keep container tightly closed and sealed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Do not store in unlabeled containers. Use proper containment to avoid environmental contamination.

**Incompatible Materials:** oxidizing materials

#### 7.3. Specific End Use(s)

Petrochemical industry: Petroleum refining. Solvent.

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

Solvent naphtha (petroleum	), medium aliph.	
OSHA PEL	TWA: 100 ppm 8 hours.	
	TWA: 400 mg/m <sup>3</sup> 8 hours.	
OSHA PEL 1989	TWA: 100 ppm 8 hours.	
	TWA: 400 mg/m <sup>3</sup> 8 hours.	
xylene		
ACGIH TLV	TWA: 100 ppm 8 hours.	
	TWA: 434 mg/m <sup>3</sup> 8 hours.	
	STEL: 150 ppm 15 minutes.	
	STEL: 651 mg/m³ 15 minutes.	
OSHA PEL 1989	TWA: 100 ppm 8 hours.	
	TWA: 435 mg/m <sup>3</sup> 8 hours.	
	STEL: 150 ppm 15 minutes.	
	STEL: 655 mg/m³ 15 minutes.	
OSHA PEL	TWA: 100 ppm 8 hours.	
	TWA: 435 mg/m <sup>3</sup> 8 hours.	
toluene		
ACGIH TLV	TWA: 20 ppm 8 hours.	

05/11/2015 EN (English US) Page **4** of **12** 

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

Version MSPRT.001



OSHA PEL 1989	TWA: 100 ppm 8 hours. TWA: 375 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 560 mg/m³ 15 minutes.
OSHA PEL Z2	TWA: 200 ppm 8 hours. CEIL: 300 ppm AMP: 500 ppm 10 minutes.
NIOSH REL	TWA: 100 ppm 10 hours. TWA: 375 mg/m³ 10 hours. STEL: 150 ppm 15 minutes. STEL: 560 mg/m³ 15 minutes.

#### 8.2. Exposure Controls

**Appropriate Engineering Controls:** Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. The engineering controls also need to keep gas, vapor or dust concentration below any lower explosive limits. Use explosion-proof ventilation equipment. Ensure all national/local regulations are observed.

Personal Protective Equipment: Protective goggles. Gloves. Protective clothing. Insufficient ventilation: wear respiratory protection.









Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear chemically resistant protective gloves.

**Eye Protection:** Chemical goggles or safety glasses.

**Skin and Body Protection:** Wear suitable protective clothing. When there is a risk of ignition from static electricity, weare anti-static protective clothing.

**Respiratory Protection:** Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

**Environmental Exposure Controls:** Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filers or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable limits. Do not allow the product to be released into the environment. **Consumer Exposure Controls:** Do not eat, drink or smoke during use.

#### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: LiquidAppearance: ColorlessOdor: HydrocarbonOdor Threshold: Not availablepH: Not available

**Evaporation Rate** : 0.03 (butyl acetate=1)

Melting Point : Not available

#### 9.1. Information on Basic Physical and Chemical Properties

Freezing Point : Not available

 Boiling Point
 : 150.56 to 211.11 °C (303 to 412 °F)

 Flash Point
 : 39.444 °C (COC) (103 °F) [Tagliabue.]

Auto-ignition Temperature: Not availableDecomposition Temperature: Not availableFlammability (solid, gas): Not availableLower Flammable Limit: Not availableUpper Flammable Limit: Not available

05/11/2015 EN (English US) Page **5** of **12** 

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

Version MSPRT.001



Vapor Pressure: Not availableRelative Vapor Density at 20 °C: Not availableRelative Density: Not available

Specific Gravity : 0.85

Solubility : Insoluble in the following materials: cold water and hot water

Partition Coefficient: N-Octanol/Water: Not availableViscosity: Not available

Viscosity, Kinematic :  $<0.205 \text{ cm}^2/\text{s} @ 40 \text{ °C} (<20.5 \text{ cSt})$ 

#### **SECTION 10: STABILITY AND REACTIVITY**

- **10.1. Reactivity:** No specific test data related to reactivity available for this product or its ingredients.
- 10.2. Chemical Stability: Stable under recommended handling and storage conditions (see section 7).
- 10.3. Possibility of Hazardous Reactions: Under normal condition of storage and use, hazardous reactions will not occur.
- **10.4. Conditions to Avoid:** Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
- 10.5. Incompatible Materials: oxidizing materials
- **10.6. Hazardous Decomposition Products:** Under normal conditions of storage and use, hazardous decomposition products should not be produced.

#### SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1. Information on Toxicological Effects - Product

#### **Acute Toxicity:**

#### LD50 and LC50 Data:

Solvent naphtha (petroleum), medium aliph.			
LC50 Inhalation Dusts and mists Rat	> 5.28 mg/l, 4 hours		
LD50 Oral Rat	> 5000 mg/kg		
LD50 Dermal Rabbit	> 2000 mg/kg		
xylene			
LC50 Inhalation Gas Rat	5000 ppm, 4 hours		
LD50 Oral Rat	4300 mg/kg		
toluene			
LC50 Inhalation Vapor Rat	49 g/m³, 4 hours		
LD50 Oral Rat	636 mg/kg		

#### Skin Corrosion/Irritation, Eye Damage/Irritation: See below

xylene	
Eyes- Mild Irritant Rabbit	87 milligrams
Eyes- Severe Irritant Rabbit	5 milligrams, 5 hours
Skin- Mild Irritant Rat	60 microliters, 8 hours
Skin- Moderate Irritant Rabbit	500 milligrams, 24 hours
Skin – Moderate Irritant Rabbit	100 percent
toluene	
Eyes- Mild Irritant Rabbit	100 milligrams, 0.5 minutes
Eyes- Mild Irritant Rabbit	870 milligrams
Eyes- Severe Irritant Rabbit	2 milligrams, 24 hours
Skin- Mild Irritant Pig	250 microliters, 24 hours
Skin-Mild Irritant Rabbit  5/11/2015  EN (English US)	435 milligrams Page 6 of 12

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

Version MSPRT.001



Skin- Moderate Irritant Rabbit	20 milligrams, 24 hours
Skin – Moderate Irritant Rabbit	500 milligrams

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Teratogenicity: Not classified

#### Carcinogenicity:

Ingredient name	OSHA	IARC	NTP
Xylene		3	
Toluene		3	

Specific Target Organ Toxicity (Repeated Exposure):

- specific ranges or 8am remainly (respectively - reposturely					
Ingredient name	Category	Route of Exposure	Target Organs		
Solvent naphtha (petroleum), medium aliph.	Category 3	N/A	Narcotic effects		
Toluene	Category 3	N/A	Narcotic effects		

#### Reproductive Toxicity: Not classified

#### **Specific Target Organ Toxicity (Single Exposure):**

Ingredient name	Category	Route of Exposure Target Organs		
Toluene	Category 2	Not determined	Not determined	

#### **Aspiration Hazard:**

Name	Result	
Solvent naphtha (petroleum), medium aliph.	Aspiration Hazard – Category 1	
toluene	Aspiration Hazard – Category 1	

**Symptoms/Injuries After Inhalation:** Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness. Adverse symptoms may include the following: nausea or vomiting, headache, drowsiness/fatigue, dizziness/vertigo,

unconsciousness, reduced fetal deaths, skeletal malformations

**Symptoms/Injuries After Skin Contact:** Repeated or prolonged skin contact may cause irritation. Adverse symptoms may include the following: irritation, redness, reduced fetl weight, increase in fetal deaths, skeletal malformations

**Symptoms/Injuries After Eye Contact:** Direct contact with the eyes is likely irritating. Adverse symptoms may include the following: Can cause pain, watering, and redness.

**Symptoms/Injuries After Ingestion:** Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters the airways. Adverse symptoms may include the following: nausea or vomiting, reduced fetal weight, increase in fetal deaths, skeletal malformations.

**Chronic Symptoms:** May cause cancer.

11.2. Information on Toxicological Effects - Ingredient(s)

See 11.1

#### **SECTION 12: ECOLOGICAL INFORMATION**

#### 12.1. Toxicity

#### **Ecology - General:**

Ingredient name	Result	Species	Exposure		
Solvent naphtha (petroleum), medium aliph.					
	Acute EC50 1 to 20 mg/l	Daphnia	48 hours		
	Acute IC50 1 to 20 mg/l	Algae	72 hours		
05/11/2015	Acute LC50 1 to 20 mg/l	Fish	96 hours		

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

Version MSPRT.001



	Chronic NOEL 0.48 mg/l	Daphnia	21 days
xylene			
	Acute LC50 8500 µg/l Marine	Crustaceans - Palaemonetes	48 hours
	water	pugio	
	Acute LC50 13400 µg/l Fresh	Fish - Pimephales promelas	96 hours
	water		
toluene			
	Acute EC50 12500 μg/l Fresh	Algae - Pseudokirchneriella	72 hours
	water	subcapitata	
	Acute EC50 11600 µg/l Fresh	Crustaceans - Gammarus	48 hours
	water	pseudolimnaeus - Adult	
	Acute EC50 6000 μg/l Fresh	Daphnia - Daphnia magna - Juvenile (Fledgling,	48 hours
	water	Hatchling,	
		Weanling)	
	Acute LC50 5500 µg/l Fresh	Fish - Oncorhynchus kisutch	96 hours
	water	- Fry	
	Chronic NOEC 1000 µg/l Fresh	Daphnia - Daphnia magna	21 days
	water		

12.2. Persistence and Degradability

Ingredient name	Aquatic Half-Life	Photolysis	Biodegradability
Solvent naphtha (petroleur	m), <sub></sub>		Inherent
medium aliph.			

#### 12.3. Bioaccumulative Potential

Ingredient Name	LogPow	BCF	Potential
Solvent naphtha (petroleum), medium aliph.	>4		High
Xylene	3.12	8.1 to 25.9	Low
Toluene	2.73	90	Low

#### 12.4. Mobility in Soil

Not available

#### 12.5. Other Adverse Effects

Other Information: Avoid release to the environment.

#### **SECTION 13: DISPOSAL CONSIDERATIONS**

#### 13.1. Waste treatment methods

**Sewage Disposal Recommendations:** Do not empty into drains; dispose of this material and its container in a safe way. Do not empty into drains. Do not dispose of waste into sewer.

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

RCRA Classification: D001 [Flammable]

Ingredient	CAS#	Status	Reference number
Xylene	1330-20-7	Listed	U239

SECTION 14: TRANSPORT INFORMATION					
	DOT Classification	TDG Classification	IMDG	IATA	
	UN1268	UN1993	UN1268	UN1268	
UN/Proper Shipping	Petroleum distillates (Page	sերեթAMMABLE LIQUID,	PETROLEUM	Petroleumadistillates, n.	

# SuperS® Mineral Spirits Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

Version MSPRT.001



name	0.8.	N.O.S. (Solvent naphtha (petroleum), medium aliph., xylene)	DISTILLATES, N.O.S	0.8.
Transport Hazard	3	3	3	3 .
Class(es)	^	<u> </u>		
	PARMATE LINE	<u>&amp;</u>	<u>^</u>	
Packing group	III	III	III	III
Environmental	No	No	Yes	No
	140	140	103	140
Additional Information	This product may be re- "Combustible Liquid," unless transported by vessel or aircraft. Non- bulk packages (less than or equal to 119 gal) of combustible liquids are not regulated as hazardous materials in package sizes less than the product reportable quantity.  Reportable quantity 5000 lbs / 2270 kg [779. 81 gal / 2951.9 L] Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.  Limited quantity Yes.  Packaging instruction Passenger aircraft Quantity limitation: 60 L		The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.  Emergency schedules (EmS) F-E, S-E  Special provisions 223, 955	The environmentally hazardous substance mark may appear if required by other transportation regulations.  Passenger and Cargo Aircraft Quantity limitation: 60 L Packaging instructions: 355 Cargo Aircraft Only Quantity limitation: 220 L Packaging instructions: 366 Limited Quantities- Passenger Aircraft Quantity limitation: 10 L Packaging instructions: Y344  Special provisions A3
	Cargo aircraft Quantity limitation: 220 L			
	Special provisions 144, B1, IB3, T4, TP1, TP29			

05/11/2015 EN (English US) Page **9** of **12** 

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

Version MSPRT.001



**Special Precautions to the user:** Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

#### **SECTION 15: REGULATORY INFORMATION**

#### 15.1. US Federal Regulations

-			
SARA Section 311/312 Hazard Classes	Fire hazard		
	Immediate (acute) health hazard		
	Delayed (chronic) health hazard		
SARA Section 313 Form R Reporting	Xylene, (CAS No) 1330-20-7, % 1 – 3		
SARA Section 313 Supplier Notification	Xylene, (CAS No) 1330-20-7, % 1 – 3		
TSCA 8(a) PAIR	naphthalene		
TSCA 8(a) CDR Exempt/Partial exemption	Not determined		
	All components are listed or exempted.		
Clean Water Act (CWA) 307	Toluene; Naphthalene; Benzene;Ethylbenzene		
Clean Water Act (CWA) 311	Xylene; Toluene; Naphthalene; Benzene; Ethylbenzene		
Clean Air Act Section 112	Listed		

#### **Composition information on Ingredients:**

Ingredient	%	Fire Hazard	Sudden Release of Pressure	Reactive	Immediate (Acute) health hazard	Delayed (Chronic) health Hazard
Solvent naphtha (petroleum), medium aliph.	86 – 96	Yes	No	No	Yes	No
Xylene	1-3	Yes	No	No	Yes	No
Toluene	0.3 – 1	Yes	No	No	Yes	Yes

#### 15.2. US State Regulations

U.S – New York – The following components are listed: Xylene (mixed)

U.S. - Massachusetts - The following components are listed: XYLENE

U.S. - New Jersey - The following components are listed: XYLENE; BENZENE, DIMETHYL-

U.S. - Pennsylvania - The following components are listed: BENZENE, DIMETHYL-

#### California Prop. 65

**WARNING:** This product contains less than 1% of a chemical known to the State of California to cause birth defects or Other reproductive harm.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
toluene	No	Yes.	No.	7000 µg/day (ingestion)

#### 15.3. Canadian Regulations

#### This material is listed or exempted.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

05/11/2015 EN (English US) Page **10** of **12** 

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

Version MSPRT.001



#### SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Revision Date** : 05/11/2015

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA

Hazard Communication Standard 29 CFR 1910.1200.

#### **GHS Full Text Phrases**:

H226	Flammable liquid and vapor
H315	Causes skin irritation
H361	Suspected of damaging the unborn child
H336	May cause drowsiness and dizziness
H304	May be fatal if swallowed and enters airways
H411	Toxic to aquatic life with long lasting effects
H224	Extremely flammable liquid and vapor.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing mist/vapors.
P271	Use only outdoors or in a well-ventilated area.
P210	Keep away from heat/sparks/open flames/ hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/Bond container and receiving equipment.
P241	Use of explosion-proof electrical/ventilating/lighting/equipment
P242	Only use non-sparking tools.
P243	Take Precautionary measures against static discharge.
P273	Avoid release to the environment
P280	Wear protective gloves/eye protection/face protection/ clothing.
P264	Wash hands thoroughly after handling.
P308 + 313	IF exposed or concerned: Get medical advice/ attention.
P303 + P361+ P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P302 + P352	IF ON SKIN: Wash with plenty of water and soap. Rinse thoroughly.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash before reuse.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER.
P331	Do not induce vomiting.
P370 + P378	In case of fire: Use dry chemical, $\mathrm{CO}_2$ , water spray (fog) or foam to extinguish
P312	Call a POISION CENTER if you feel unwell.
P321	Specific Treatment: Seek medical attention bring label when available.
P391	Collect Spillage.
P403 + P235	Store in well-ventilated place. Keep Cool.
P402 + 233	Store in well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with all local/regional/ national/ international regulations.

05/11/2015 EN (English US) Page **11** of **12** 

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

Version MSPRT.001



#### Party Responsible for the Preparation of This Document

Smitty's Supply, Inc. PO BOX 530 Roseland, LA 70456 985-748-8214

www.smittysinc.net

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

North America GHS US 2012 & WHM IS 2

05/11/2015 EN (English US) Page **12** of **12** 

### **RV Wash & Wax**

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous

Products Regulation (February 11, 2015).

Date of Issue: 10/12/2018 Version: 1.0

#### **SECTION 1: IDENTIFICATION**

**Product Identifier** 

Product Form: Mixture

Product Name: RV Wash & Wax

**Product Code: 715XX** 

**Intended Use of the Product** 

Cleaner

Name, Address, and Telephone of the Responsible Party

Company

Star brite® Inc.

4041 SW 47th Avenue

Fort Lauderdale, FL 33314

(954) 587-6280

www.starbrite.com

**Emergency Telephone Number** 

Emergency Number : US: (800) 424-9300; International: (703) 527-3887 (CHEMTREC)

#### **SECTION 2: HAZARDS IDENTIFICATION**

#### **Classification of the Substance or Mixture**

**GHS-US/CA Classification** 

Eve Irrit. 2

Full text of hazard classes and H-statements: see section 16

**Label Elements** 

**GHS-US/CA Labeling** 

Hazard Pictograms (GHS-US/CA)



Signal Word (GHS-US/CA) : Warning

: H319 - Causes serious eye irritation. Hazard Statements (GHS-US/CA)

Precautionary Statements (GHS-US/CA): P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.

P280 - Wear protective gloves, protective clothing, and eye protection.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P501 - Dispose of contents/container in accordance with local, regional, national,

territorial, provincial, and international regulations.

**Other Hazards** 

H402 Aquatic Acute 3 H402 - Harmful to aquatic life.

P273 - Avoid release to the environment.

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

**Unknown Acute Toxicity (GHS-US/CA)** 

No data available

#### **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

#### Mixture

Name	Product Identifier	% *	GHS Ingredient Classification
Sodium lauryl sulfate	(CAS-No.) 151-21-3	1.3 - 3.9	Flam. Sol. 2, H228
			Acute Tox. 4 (Oral), H302

10/12/2018 RTATEKPURPLE-CC 1/12 EN (English US)

#### **RV Wash & Wax**

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

	, . ,		Tuous Froudcts Negalation (February 11, 2013).
			Skin Irrit. 2, H315
			Eye Dam. 1, H318
			STOT SE 3, H335
			Aquatic Acute 2, H401
			Aquatic Chronic 3, H412
Ammonium chloride	(CAS-No.) 12125-02-9	0.5 - 1.5**	Acute Tox. 4 (Oral), H302
			Eye Irrit. 2A, H319
			Aquatic Acute 3, H402
			Comb. Dust
Poly(oxy-1,2-ethanediyl), .alphasulfo-	(CAS-No.) 9004-82-4	0.65 - 1.3	Acute Tox. 4 (Oral), H302
.omega(dodecyloxy)-, sodium salt			Skin Irrit. 2, H315
			Eye Irrit. 2A, H319
			Aquatic Acute 2, H401
			Aquatic Chronic 3, H412
1-Propanaminium, 3-amino-N-	(CAS-No.) 61789-40-0	0.65 - 1.3	Skin Irrit. 2, H315
(carboxymethyl)-N,N-dimethyl-, N-coco acyl			Eye Irrit. 2A, H319
derivatives, hydroxides, inner salts			Aquatic Acute 1, H400
			Aquatic Chronic 2, H411
Ethyl alcohol	(CAS-No.) 64-17-5	0.13 - 0.65	Flam. Liq. 2, H225
			Eye Irrit. 2A, H319
Poly(oxy-1,2-ethanediyl), .alpha[3-[1,3,3,3-	(CAS-No.) 67674-67-3	0.2 - 0.6	Acute Tox. 4 (Inhalation:dust,mist), H332
tetramethyl-1-			Eye Dam. 1, H318
[(trimethylsilyl)oxy]disiloxanyl]propyl]omegahydroxy-			Aquatic Chronic 2, H411
Polytetrafluoroethylene	(CAS-No.) 9002-84-0	0.006 -	Comb. Dust
	_	0.012	

Full text of H-phrases: see section 16

#### **SECTION 4: FIRST AID MEASURES**

#### **Description of First-aid Measures**

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

**Skin Contact:** Immediately drench affected area with water for at least 15 minutes. Remove contaminated clothing. Obtain medical attention if irritation develops or persists.

**Eye Contact:** Immediately rinse with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.

Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

#### Most Important Symptoms and Effects Both Acute and Delayed

**General:** Causes serious eye irritation.

**Inhalation:** Prolonged exposure may cause irritation.

Skin Contact: Prolonged exposure may cause skin irritation. May cause an allergic reaction in sensitive individuals.

Eye Contact: Contact causes severe irritation with redness and swelling of the conjunctiva.

**Ingestion:** Ingestion may cause adverse effects.

Chronic Symptoms: None known.

#### Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

10/12/2018 RTATEKPURPLE-CC EN (English US) 2/12

<sup>\*</sup>Percentages are listed in weight by weight percentage (w/w%) for liquid and solid ingredients. Gas ingredients are listed in volume by volume percentage (v/v%).

<sup>\*\*</sup> The actual concentration of ingredient(s) is withheld as a trade secret in accordance with the Hazardous Products Regulations (HPR) SOR/2015-17 and 29 CFR 1910.1200.

#### **RV Wash & Wax**

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

#### **SECTION 5: FIRE-FIGHTING MEASURES**

#### **Extinguishing Media**

**Suitable Extinguishing Media:** Water spray, fog, carbon dioxide (CO<sub>2</sub>), alcohol-resistant foam, or dry chemical. **Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

#### Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures.

**Explosion Hazard:** Product is not explosive.

**Reactivity:** Hazardous reactions will not occur under normal conditions. May react with alkalis to release ammonia. May react with acids to release hydrogen chloride.

#### **Advice for Firefighters**

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers. Remove containers from fire area if this can be done without risk. Do not breathe fumes from fires or vapors from decomposition.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products**: Carbon oxides (CO, CO<sub>2</sub>). Nitrogen oxides. Hydrogen chloride. Ammonia. Sulfur oxides. Irritating fumes.

Other Information: Do not allow run-off from fire fighting to enter drains or water courses.

#### **Reference to Other Sections**

Refer to Section 9 for flammability properties.

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

#### Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid all contact with skin, eyes, or clothing. Avoid breathing (vapor, mist, spray).

#### For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### **For Emergency Personnel**

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

#### **Environmental Precautions**

Prevent entry to sewers and public waters. Avoid release to the environment.

#### Methods and Materials for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Absorb and/or contain spill with inert material. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

#### **Reference to Other Sections**

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

#### **SECTION 7: HANDLING AND STORAGE**

#### **Precautions for Safe Handling**

**Precautions for Safe Handling:** Avoid contact with skin, eyes and clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid breathing vapors, mist, spray. Use appropriate personal protective equipment (PPE).

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash contaminated clothing before reuse.

#### **Conditions for Safe Storage, Including Any Incompatibilities**

**Technical Measures:** Comply with applicable regulations.

**Storage Conditions:** Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

**Incompatible Materials:** Strong acids, strong bases, strong oxidizers. Alkalis. Nitrates. Aluminium (at high temperatures). Acid chlorides. Acid anhydrides.

10/12/2018 RTATEKPURPLE-CC EN (English US) 3/12

#### **RV Wash & Wax**

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

### Specific End Use(s)

Cleaner

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control Parameters**

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

governments, or the Mexicar		
Ammonium chloride (12125-	•	10 / 3/5
Mexico	OEL TWA (mg/m³)	10 mg/m³ (fume)
Mexico	OEL STEL (mg/m³)	20 mg/m³ (fume)
USA ACGIH	ACGIH TWA (mg/m³)	10 mg/m³ (fume)
USA ACGIH	ACGIH STEL (mg/m³)	20 mg/m³ (fume)
USA NIOSH	NIOSH REL (TWA) (mg/m³)	10 mg/m³ (fume)
USA NIOSH	NIOSH REL (STEL) (mg/m³)	20 mg/m³ (fume)
Alberta	OEL STEL (mg/m³)	20 mg/m³ (fume)
Alberta	OEL TWA (mg/m³)	10 mg/m³ (fume)
British Columbia	OEL STEL (mg/m³)	20 mg/m³ (fume)
British Columbia	OEL TWA (mg/m³)	10 mg/m³ (fume)
Manitoba	OEL STEL (mg/m³)	20 mg/m³ (fume)
Manitoba	OEL TWA (mg/m³)	10 mg/m³ (fume)
New Brunswick	OEL STEL (mg/m³)	20 mg/m³ (fume)
New Brunswick	OEL TWA (mg/m³)	10 mg/m³ (fume)
Newfoundland & Labrador	OEL STEL (mg/m³)	20 mg/m³ (fume)
Newfoundland & Labrador	OEL TWA (mg/m³)	10 mg/m³ (fume)
Nova Scotia	OEL STEL (mg/m³)	20 mg/m³ (fume)
Nova Scotia	OEL TWA (mg/m³)	10 mg/m³ (fume)
Nunavut	OEL STEL (mg/m³)	20 mg/m³ (fume)
Nunavut	OEL TWA (mg/m³)	10 mg/m³ (fume)
Northwest Territories	OEL STEL (mg/m³)	20 mg/m³ (fume)
Northwest Territories	OEL TWA (mg/m³)	10 mg/m³ (fume)
Ontario	OEL STEL (mg/m³)	20 mg/m³ (fume)
Ontario	OEL TWA (mg/m³)	10 mg/m³ (fume)
Prince Edward Island	OEL STEL (mg/m³)	20 mg/m³ (fume)
Prince Edward Island	OEL TWA (mg/m³)	10 mg/m³ (fume)
Québec	VECD (mg/m³)	20 mg/m³ (fume)
Québec	VEMP (mg/m³)	10 mg/m³ (fume)
Saskatchewan	OEL STEL (mg/m³)	20 mg/m³ (fume)
Saskatchewan	OEL TWA (mg/m³)	10 mg/m³ (fume)
Yukon	OEL STEL (mg/m³)	20 mg/m³ (fume)
Yukon	OEL TWA (mg/m³)	10 mg/m³ (fume)
Ethyl alcohol (64-17-5)		
Mexico	OEL TWA (mg/m³)	1900 mg/m³
Mexico	OEL TWA (ppm)	1000 ppm
USA ACGIH	ACGIH STEL (ppm)	1000 ppm
USA ACGIH	ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
USA OSHA	OSHA PEL (TWA) (mg/m³)	1900 mg/m³
USA OSHA	OSHA PEL (TWA) (ppm)	1000 ppm
USA NIOSH	NIOSH REL (TWA) (mg/m³)	1900 mg/m³
USA NIOSH	NIOSH REL (TWA) (ppm)	1000 ppm
	US IDLH (ppm)	3300 ppm (10% LEL)
USA IDLH	03 IDLU (bbiii)	2200 hhiii (10% FEF)

10/12/2018 RTATEKPURPLE-CC EN (English US) 4/12

#### **RV Wash & Wax**

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

Alberta	OEL TWA (mg/m³)	1880 mg/m³
Alberta	OEL TWA (ppm)	1000 ppm
British Columbia	OEL STEL (ppm)	1000 ppm
Manitoba	OEL STEL (ppm)	1000 ppm
New Brunswick	OEL TWA (mg/m³)	1880 mg/m³
New Brunswick	OEL TWA (ppm)	1000 ppm
Newfoundland & Labrador	OEL STEL (ppm)	1000 ppm
Nova Scotia	OEL STEL (ppm)	1000 ppm
Nunavut	OEL STEL (ppm)	1250 ppm
Nunavut	OEL TWA (ppm)	1000 ppm
Northwest Territories	OEL STEL (ppm)	1250 ppm
Northwest Territories	OEL TWA (ppm)	1000 ppm
Ontario	OEL STEL (ppm)	1000 ppm
Prince Edward Island	OEL STEL (ppm)	1000 ppm
Québec	VEMP (mg/m³)	1880 mg/m³
Québec	VEMP (ppm)	1000 ppm
Saskatchewan	OEL STEL (ppm)	1250 ppm
Saskatchewan	OEL TWA (ppm)	1000 ppm
Yukon	OEL STEL (mg/m³)	1900 mg/m³
Yukon	OEL STEL (ppm)	1000 ppm
Yukon	OEL TWA (mg/m³)	1900 mg/m³
Yukon	OEL TWA (ppm)	1000 ppm
Polytetrafluoroethylene (90	02-84-0)	
Québec	VEMP (mg/m³)	2.5 mg/m³ (decomposition products)

#### **Exposure Controls**

**Appropriate Engineering Controls:** Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal Protective Equipment: Gloves. Protective clothing. Protective goggles.







Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear protective gloves.

Eye and Face Protection: Chemical safety goggles.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment.

**Environmental Exposure Controls:** Avoid release to the environment.

Other Information: When using, do not eat, drink or smoke.

#### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

#### <u>Information on Basic Physical and Chemical Properties</u>

Physical State: LiquidAppearance: PurpleOdor: CharacteristicOdor Threshold: Not available

**pH** : 6.5

Evaporation Rate: Not availableMelting Point: Not availableFreezing Point: Not available

10/12/2018 RTATEKPURPLE-CC EN (English US) 5/12

#### RV Wash & Wax

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

**Boiling Point** 100 °C (212 °F) **Flash Point** > 100 °C (> 212 °F) **Auto-ignition Temperature** Not available **Decomposition Temperature** Not available Flammability (solid, gas) Not applicable **Lower Flammable Limit** Not available **Upper Flammable Limit** Not available **Vapor Pressure** Not available Relative Vapor Density at 20°C Not available **Relative Density** Not available

Specific Gravity : 1.02

Solubility: Water: SolublePartition Coefficient: N-Octanol/Water: Not availableViscosity: Not available

#### **SECTION 10: STABILITY AND REACTIVITY**

**Reactivity:** Hazardous reactions will not occur under normal conditions. May react with alkalis to release ammonia. May react with acids to release hydrogen chloride.

**Chemical Stability:** Stable under recommended handling and storage conditions (see section 7).

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Direct sunlight, extremely high or low temperatures, and incompatible materials.

<u>Incompatible Materials</u>: Strong acids, strong bases, strong oxidizers. Alkalis. Nitrates. Aluminium (at high temperatures). Acid chlorides. Acid anhydrides.

<u>Hazardous Decomposition Products:</u> None expected under normal conditions of use. Thermal decomposition generates: Carbon oxides (CO, CO<sub>2</sub>). Hydrogen chloride. Ammonia. Irritating fumes.

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

#### **Information on Toxicological Effects - Product**

Acute Toxicity (Oral): Not classified
Acute Toxicity (Dermal): Not classified
Acute Toxicity (Inhalation): Not classified
LD50 and LC50 Data: Not available
Skin Corrosion/Irritation: Not classified

**pH:** 6.5

Eye Damage/Irritation: Causes serious eye irritation.

**pH:** 6.5

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Carcinogenicity: Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Aspiration Hazard: Not classified

**Symptoms/Injuries After Inhalation:** Prolonged exposure may cause irritation.

Symptoms/Injuries After Skin Contact: Prolonged exposure may cause skin irritation. May cause an allergic reaction in sensitive

individuals.

Symptoms/Injuries After Eye Contact: Contact causes severe irritation with redness and swelling of the conjunctiva.

**Symptoms/Injuries After Ingestion:** Ingestion may cause adverse effects.

Chronic Symptoms: None known.

#### <u>Information on Toxicological Effects - Ingredient(s)</u>

LD50 and LC50 Data:

#### Ammonium chloride (12125-02-9)

10/12/2018 RTATEKPURPLE-CC EN (English US) 6/12

### **RV Wash & Wax**

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

LD50 Oral Rat	1650 mg/kg
Sodium lauryl sulfate (151-21-3)	
LD50 Oral Rat	1288 mg/kg
LD50 Dermal Rat	> 2000 mg/kg
LC50 Inhalation Rat	> 3900 mg/m³ (Exposure time: 1 h)
Poly(oxy-1,2-ethanediyl), .alphasulfoomega(dodecylox	(y)-, sodium salt (9004-82-4)
LD50 Oral Rat	1600 mg/kg
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimet	hyl-, N-coco acyl derivatives, hydroxides, inner salts (61789-40-0)
LD50 Oral Rat	> 10000 mg/kg
LD50 Dermal Rabbit	> 2000 mg/kg
Ethyl alcohol (64-17-5)	
LD50 Oral Rat	10470 mg/kg
LD50 Dermal Rat	20 ml/kg
LC50 Inhalation Rat	124.7 mg/l/4h
Poly(oxy-1,2-ethanediyl), .alpha[3-[1,3,3,3-tetramethyl-1	-[(trimethylsilyl)oxy]disiloxanyl]propyl]omegahydroxy- (67674-67-3)
ATE US/CA (dust, mist)	1.50 mg/l/4h
Ethyl alcohol (64-17-5)	
IARC Group	1
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.
Polytetrafluoroethylene (9002-84-0)	
IARC Group	3

### **SECTION 12: ECOLOGICAL INFORMATION**

#### **Toxicity**

Ecology - General: Harmful to aquatic life.

Ammonium chloride (12125-02-9)	
LC50 Fish 1	209 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [static])
EC50 Daphnia 1	161 mg/l
LC50 Fish 2	42.91 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
NOEC Chronic Fish	8 mg/l
NOEC Chronic Crustacea	14.6 mg/l
Sodium lauryl sulfate (151-21-3)	
LC50 Fish 1	8 (8 - 12.5) mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 1	1.8 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 Fish 2	15 (15 - 18.9) mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
NOEC Chronic Crustacea	0.88 mg/l
Poly(oxy-1,2-ethanediyl), .alphasulfo	oomega(dodecyloxy)-, sodium salt (9004-82-4)
EC50 Other Aquatic Organisms 1	3.12 (2.43 - 4.01) mg/l (Species Ceriodaphnia, exposure time: 48 hr)
NOEC Chronic Fish	20 mg/l 20 - 30
NOEC Chronic Crustacea	0.3 - 6.3 mg/l
NOEC Chronic Algae	0.35 mg/l 0.35 - 0.9
1-Propanaminium, 3-amino-N-(carbo	cymethyl)-N,N-dimethyl-, N-coco acyl derivatives, hydroxides, inner salts (61789-40-0)
LC50 Fish 1	1 (1 - 10) mg/l (Exposure time: 96 h - Species: Brachydanio rerio)
EC50 Daphnia 1	6.5 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 Other Aquatic Organisms 1	1 (1 - 10) mg/l (Exposure time: 72 h - Species: Desmodesmus subspicatus)
LC50 Fish 2	2 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [semi-static])
ErC50 (algae)	1.3 mg/l
NOEC Chronic Algae	0.09 mg/l
Ethyl alcohol (64-17-5)	
LC50 Fish 1	11200 mg/l

10/12/2018 RTATEKPURPLE-CC EN (English US) 7/12

#### **RV Wash & Wax**

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

EC50 Daphnia 1	9268 - 14221 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
LC50 Fish 2	> 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])	
ErC50 (algae)	1000 mg/l	
NOEC Chronic Crustacea	9.6 mg/l	

#### **Persistence and Degradability**

Boat Wash & Wax	
Persistence and Degradability	Not established.

#### **Bioaccumulative Potential**

Boat Wash & Wax		
Bioaccumulative Potential	Not established.	
Sodium lauryl sulfate (151-21-3)	Sodium lauryl sulfate (151-21-3)	
BCF Fish 1	(will not bioconcentrate)	
Log Pow	1.6	
Ethyl alcohol (64-17-5)		
Log Pow	-0.32	

#### **Mobility in Soil**

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivatives, hydroxides, inner salts (61789-40-0)		
Log Koc	2.8	

#### **Other Adverse Effects**

Other Information: Avoid release to the environment.

#### **SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste Disposal Recommendations:** Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

Additional Information: Container may remain hazardous when empty. Continue to observe all precautions.

**Ecology - Waste Materials:** Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

#### SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

In Accordance with DOTNot regulated for transportIn Accordance with IMDGNot regulated for transportIn Accordance with IATANot regulated for transportIn Accordance with TDGNot regulated for transport

#### **SECTION 15: REGULATORY INFORMATION**

#### **US Federal Regulations**

Boat Wash & Wax			
ARA Section 311/312 Hazard Classes Health hazard - Serious eye damage or eye irritation			
Ammonium chloride (12125-02-9)			
Listed on the United States TSCA (Toxic Substances Control Act	inventory		
CERCLA RQ	RCLA RQ 5000 lb		
Sodium lauryl sulfate (151-21-3)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory			
Poly(oxy-1,2-ethanediyl), .alphasulfoomega(dodecyloxy)-,	sodium salt (9004-82-4)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory			
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under		
	Chemical Data Reporting Rule (formerly the Inventory Update		
	Reporting Rule), i.e, Partial Updating of the TSCA Inventory Data		
Base Production and Site Reports (40 CFR 711).			
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivatives, hydroxides, inner salts (61789-40-0)			

10/12/2018 RTATEKPURPLE-CC EN (English US) 8/12

#### RV Wash & Wax

#### Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

Listed on the United States TSCA (Toxic Substances Control A	Act) inventory	
Ethyl alcohol (64-17-5)		
Listed on the United States TSCA (Toxic Substances Control A	Act) inventory	
Poly(oxy-1,2-ethanediyl), .alpha[3-[1,3,3,3-tetramethyl-1-	[(trimethylsilyl)oxy]disiloxanyl]propyl]omegahydroxy- (67674-67-3)	
Listed on the United States TSCA (Toxic Substances Control A	Act) inventory	
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under	
	Chemical Data Reporting Rule (formerly the Inventory Update	
	Reporting Rule), i.e, Partial Updating of the TSCA Inventory Data	
	Base Production and Site Reports (40 CFR 711).	
Polytetrafluoroethylene (9002-84-0)		
Listed on the United States TSCA (Toxic Substances Control A	Act) inventory	
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under	
	Chemical Data Reporting Rule (formerly the Inventory Update	
	Reporting Rule), i.e, Partial Updating of the TSCA Inventory Data	
	Base Production and Site Reports (40 CFR 711).	
UC Chata Bassalations	•	

#### **US State Regulations**

#### Ammonium chloride (12125-02-9)

- U.S. Connecticut Hazardous Air Pollutants HLVs (30 min)
- U.S. Connecticut Hazardous Air Pollutants HLVs (8 hr)
- U.S. Delaware Pollutant Discharge Requirements Reportable Quantities
- U.S. Idaho Non-Carcinogenic Toxic Air Pollutants Acceptable Ambient Concentrations
- U.S. Idaho Non-Carcinogenic Toxic Air Pollutants Emission Levels (ELs)
- U.S. Massachusetts Oil & Hazardous Material List Groundwater Reportable Concentration Reporting Category 1
- U.S. Massachusetts Oil & Hazardous Material List Groundwater Reportable Concentration Reporting Category 2
- U.S. Massachusetts Oil & Hazardous Material List Reportable Quantity
- U.S. Massachusetts Oil & Hazardous Material List Soil Reportable Concentration Reporting Category 1
- U.S. Massachusetts Oil & Hazardous Material List Soil Reportable Concentration Reporting Category 2
- RTK U.S. Massachusetts Right To Know List
- U.S. Massachusetts Toxics Use Reduction Act
- U.S. Michigan Occupational Exposure Limits STELs
- U.S. Michigan Occupational Exposure Limits TWAs
- U.S. Michigan Polluting Materials List
- U.S. Minnesota Hazardous Substance List
- U.S. Minnesota Permissible Exposure Limits STELs
- U.S. Minnesota Permissible Exposure Limits TWAs
- U.S. New Jersey Discharge Prevention List of Hazardous Substances
- RTK U.S. New Jersey Right to Know Hazardous Substance List
- U.S. New York Occupational Exposure Limits TWAs
- U.S. New York Reporting of Releases Part 597 List of Hazardous Substances
- U.S. North Dakota Air Pollutants Guideline Concentrations 1-Hour
- U.S. North Dakota Air Pollutants Guideline Concentrations 8-Hour
- U.S. Oregon Permissible Exposure Limits TWAs
- RTK U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- RTK U.S. Pennsylvania RTK (Right to Know) List
- U.S. South Carolina Toxic Air Pollutants Maximum Allowable Concentrations
- U.S. South Carolina Toxic Air Pollutants Pollutant Categories
- U.S. Tennessee Occupational Exposure Limits STELs
- U.S. Tennessee Occupational Exposure Limits TWAs
- U.S. Texas Effects Screening Levels Long Term
- U.S. Texas Effects Screening Levels Short Term
- U.S. Vermont Permissible Exposure Limits STELs
- U.S. Vermont Permissible Exposure Limits TWAs
- U.S. Washington Permissible Exposure Limits STELs

10/12/2018 RTATEKPURPLE-CC EN (English US) 9/12

#### RV Wash & Wax

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015)

#### U.S. - Washington - Permissible Exposure Limits - TWAs

#### Sodium lauryl sulfate (151-21-3)

- U.S. Texas Effects Screening Levels Long Term
- U.S. Texas Effects Screening Levels Short Term

#### Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-(dodecyloxy)-, sodium salt (9004-82-4)

- U.S. Texas Effects Screening Levels Long Term
- U.S. Texas Effects Screening Levels Short Term

#### 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivatives, hydroxides, inner salts (61789-40-0)

- U.S. Texas Effects Screening Levels Long Term
- U.S. Texas Effects Screening Levels Short Term

#### Ethyl alcohol (64-17-5)

- U.S. Connecticut Hazardous Air Pollutants HLVs (30 min)
- U.S. Connecticut Hazardous Air Pollutants HLVs (8 hr)
- U.S. Idaho Non-Carcinogenic Toxic Air Pollutants Acceptable Ambient Concentrations
- U.S. Idaho Non-Carcinogenic Toxic Air Pollutants Emission Levels (ELs)
- U.S. Idaho Occupational Exposure Limits TWAs
- U.S. Illinois Toxic Air Contaminant Carcinogens
- U.S. Maine Chemicals of High Concern
- U.S. Massachusetts Allowable Ambient Limits (AALs)
- U.S. Massachusetts Allowable Threshold Concentrations (ATCs)
- U.S. Massachusetts Oil & Hazardous Material List Reportable Quantity
- RTK U.S. Massachusetts Right To Know List
- U.S. Massachusetts Threshold Effects Exposure Limits (TELs)
- U.S. Michigan Occupational Exposure Limits TWAs
- U.S. Minnesota Chemicals of High Concern
- U.S. Minnesota Hazardous Substance List
- U.S. Minnesota Permissible Exposure Limits TWAs
- U.S. New Hampshire Regulated Toxic Air Pollutants Ambient Air Levels (AALs) 24-Hour
- U.S. New Hampshire Regulated Toxic Air Pollutants Ambient Air Levels (AALs) Annual
- RTK U.S. New Jersey Right to Know Hazardous Substance List
- U.S. New Jersey Special Health Hazards Substances List
- U.S. New York Occupational Exposure Limits TWAs
- U.S. North Dakota Air Pollutants Guideline Concentrations 1-Hour
- U.S. Oregon Permissible Exposure Limits TWAs
- RTK U.S. Pennsylvania RTK (Right to Know) List
- U.S. Tennessee Occupational Exposure Limits TWAs
- U.S. Texas City of Austin Aerosol Paint and Glue Restrictions
- U.S. Texas Effects Screening Levels Long Term
- U.S. Texas Effects Screening Levels Short Term
- U.S. Vermont Permissible Exposure Limits TWAs
- U.S. Washington Permissible Exposure Limits STELs
- U.S. Washington Permissible Exposure Limits TWAs

#### Polytetrafluoroethylene (9002-84-0)

- RTK U.S. Pennsylvania RTK (Right to Know) List
- U.S. Texas Effects Screening Levels Long Term
- U.S. Texas Effects Screening Levels Short Term

#### **Canadian Regulations**

#### Ammonium chloride (12125-02-9)

Listed on the Canadian DSL (Domestic Substances List)

#### Sodium lauryl sulfate (151-21-3)

Listed on the Canadian DSL (Domestic Substances List)

10/12/2018 RTATEKPURPLE-CC EN (English US) 10/12

#### **RV Wash & Wax**

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-(dodecyloxy)-, sodium salt (9004-82-4)

Listed on the Canadian DSL (Domestic Substances List)

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivatives, hydroxides, inner salts (61789-40-0)

Listed on the Canadian DSL (Domestic Substances List)

Ethyl alcohol (64-17-5)

Listed on the Canadian DSL (Domestic Substances List)

Poly(oxy-1,2-ethanediyl), .alpha.-[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]disiloxanyl]propyl]-.omega.-hydroxy- (67674-67-3)

Listed on the Canadian DSL (Domestic Substances List)

Polytetrafluoroethylene (9002-84-0)

Listed on the Canadian DSL (Domestic Substances List)

#### SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Date of Preparation or Latest** 

: 10/12/2018

Revision

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA

Hazard Communication Standard 29 CFR 1910.1200 and Canada's Hazardous Products

Regulations (HPR) SOR/2015-17.

#### **GHS Full Text Phrases:**

Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Comb. Dust	Combustible Dust
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 2	Flammable liquids Category 2
Flam. Sol. 2	Flammable solids Category 2
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H225	Highly flammable liquid and vapor
H228	Flammable solid
H302	Harmful if swallowed
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H400	Very toxic to aquatic life
H401	Toxic to aquatic life
H402	Harmful to aquatic life
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

10/12/2018 RTATEKPURPLE-CC EN (English US) 11/12

#### **RV Wash & Wax**

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

**NFPA Health Hazard** 

: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

**NFPA Fire Hazard** 

: 1 - Materials that must be preheated before ignition can occur.

**NFPA Reactivity Hazard** 

0 - Material that in themselves are normally stable, even under fire conditions.



This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

NA GHS SDS 2015 (Can, US, Mex)

10/12/2018 RTATEKPURPLE-CC EN (English US) 12/12





#### SAFETY DATA SHEET

Revision date: August 1, 2023

#### Section 1: Identification

#### 1.1 Product identifier:

St Marys Portland Cement

St Marys Portland-Limestone Cement (ENVIROCEM™, Contempra™)

#### Alternate names:

- CSA A3000 Types GU, MS, MH, HE, LH, HS, GUL, HEL, MHL, LHL
- ASTM C150/AASHTO M85 Types I, IA, II, II-MH, I-II, III, IV, V
- ASTM C595/AASHTO M240 Types IL

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against:

Identified uses:

Industrial uses in manufacture of concrete, mortars and grouts for building materials and pavement.

Uses advised against:

Keep out of reach of children.

#### 1.3 Details of the supplier of the Safety Data Sheet:

St. Marys Cement 55 Industrial Street Toronto, ON M4G 3W9

> Information Telephone Numbers In Canada: 1-800-268-6148 In USA: 1-800-462-9157 ext. 537

#### 1.4 Emergency telephone number:

In Canada: 1-613-996-6666 CANUTEC (Call Collect or \*666 Cellular)

In USA: 1-800-462-9157

#### Section 2: Hazards Identification

#### 2.1 Classification of the substance or mixture:

Skin Irritation Cat. 2; H315

Eye Damage Cat. 1; H318

Specific Target Organ Toxicity, Single Exposure, Cat. 3; H335

Carcinogenicity Cat. 1; H350 (inhalation)

Specific Target Organ Toxicity, Repeated Exposure, Cat. 1; H372 (inhalation)

#### 2.2 Label elements:



#### Danger.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H335: May cause respiratory irritation.

H350: May cause cancer by inhalation.

H372: Causes damage to lungs through prolonged or repeated exposure by inhalation.

#### Prevention

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P260: Do not breathe dusts.

P264: Wash hands and exposed skin thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves/ protective clothing and eye protection/face protection.

#### Response

P302+ P352: IF ON SKIN: Wash with plenty of water.

P321: Specific treatment: Caustic burns must be treated promptly by a doctor.





#### SAFETY DATA SHEET

Revision date: August 1, 2023

#### Section 2: Hazards Identification

#### 2.2 Label elements: (continued)

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P332+P315: If skin irritation occurs: Get medical advice/attention.

P362+P364: Take off contaminated clothing and wash it before reuse.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. P310: Immediately call a POISON CENTER or doctor.

P314: Get medical advice/attention if you feel unwell.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P308+P313: If exposed or concerned: Get medical advice/attention.

#### Storage

P405: Store locked up.

P403+P233: Store in well-ventilated place. Keep container tightly closed.

#### Disposal

P501: Recycle and or dispose of contents/containers in accordance with local/regional/national/ international regulations.

#### 2.3 Other hazards:

Dusts from this product, when combined with water or sweat, produce a corrosive alkaline solution. The potential exists for static build-up and static discharge when moving cement powders through a plastic, nonconductive, or non-grounded pneumatic conveyance system. Static discharge may result in damage to equipment and injury to workers.

#### Section 3: Composition/Information on Ingredients

Chemical Name	CAS No.	<u>Wt.%</u>	GHS Classification
Portland Cement	ortland Cement 65997-15-1 90 - 100	90 - 100	Skin Irrit. 2; H315
Tottland Cement	00997-10-1	90 - 100	Eye Dam. 1; H318
			Skin Sens. 1, H317.
			STOT SE 3, H335
Calcium oxide	1305-78-8	0.3 – 3.0	Skin Irrit. 2; H315
Calcium Oxide			Eye Dam. 1; H318
Crystalline silica	14808-60-7	0.1 – 1.5	Carc. 1; H350
	14000-00-7	0.1 – 1.5	STOT RE1; H372
Chromate compounds	Not available	<0.1	Not available
Nickel compounds	Not available	<0.1	Not available

#### **First Aid Measures** Section 4:

#### 4.1 Description of first aid measures:

Precautions: First aid providers should avoid direct contact with this chemical. Wear chemical protective gloves, if necessary. Take precautions to ensure your own safety before attempting rescue, (e.g. wear appropriate protective equipment).

Inhalation: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical help if coughing or other symptoms persist. Inhalation of large amounts of Portland cement requires immediate medical attention. Call a poison center or doctor. If the individual is not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately.

Maintain an open airway.





Revision date: August 1, 2023

#### SAFETY DATA SHEET

**Eye Contact:** Immediately rinse eyes cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or Doctor. Take care not to rinse contaminated water into the unaffected eye or onto face.

**Skin Contact:** Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

Get medical attention immediately. Heavy exposure to Portland cement dust, wet concrete or associated water requires prompt attention. Quickly remove contaminated clothing, shoes and leather goods such as watchbands and belts. Quickly and gently blot or brush away excess Portland cement. Immediately wash thoroughly with lukewarm, gently flowing water and non-abrasive pH neutral soap. Seek medical attention for rashes, burns, irritation, dermatitis and prolonged unprotected exposures to wet cement, cement mixtures or liquids from wet cement. Burns should be treated promptly by a doctor.

#### Section 4: First Aid Measures, continued

**Ingestion:** Rinse mouth. Do NOT induce vomiting. Obtain medical attention immediately or transport victim to an emergency treatment center.

#### 4.2 Most important symptoms and effects, both acute and delayed:

**Inhalation:** High concentrations of airborne dusts are severely irritating to the upper respiratory tract with symptoms such as coughing, sneezing and shortness of breath. Long-term inhalation exposure to dusts containing respirable size crystalline silica can cause silicosis and lung cancer.

**Eye Contact:** Severely irritating in contact with eyes. Causes eye damage which may be permanent and may cause blindness. Solid particles react with moisture in the eye to form clumps of moist compound which may be difficult to remove.

**Skin Contact:** Dusts from this product, when combined with water or sweat, produce a severely irritating alkaline solution and burning of the skin. Symptoms include pain, burns, skin dryness, cracking and eczema.

Wet product causes burns with little warning. Discomfort or pain cannot be relied upon to alert a person to a serious injury; symptoms of pain and burn may be delayed for hours.

May cause an allergic skin reaction from trace amounts of sensitizing metals in lime.

**Ingestion:** Severely irritating to the mouth, throat and gastro-intestinal system if swallowed. Symptoms may include severe pain and burning of the mouth, throat, esophagus and gastro-intestinal tract with nausea, vomiting and diarrhea. If aspiration into the lungs occurs during vomiting, severe lung damage may result.

#### 4.3 Indication of any immediate medical attention and special treatment needed:

Corrosive material; get immediate medical advice/attention if inhaled, if swallowed or if in eyes.

#### Section 5: Firefighting Measures

#### 5.1 Extinguishing media:

Use extinguishing media appropriate to the surrounding fire conditions. Use flooding quantities of water as a spray.

**Unsuitable extinguishing media:** Use caution when using water. Do not get water inside closed containers; contact with water will generate heat. Water jet may cause spattering of the corrosive solution. Use caution when using CO<sub>2</sub>; it may scatter the dry powder.

#### 5.2 Special hazards arising from the substance or mixture:

Product is not flammable or combustible.

Bulk powder of this product may heat spontaneously when damp with water.

Corrosive; reacts with water releasing heat and forming an alkaline solution.

#### 5.3 Advice for firefighters:

As for any fire, evacuate the area and fight the fire from a safe distance. Firefighters must wear full protective equipment including self-contained breathing apparatus with chemical protection clothing when firefighters are exposed to decomposition products from this material.

#### Section 6: Accidental Release Measures

#### 6.1 Personal precautions, protective equipment and emergency procedures:

Wear adequate personal protective equipment, including an appropriate respirator as indicated in Section 8. Isolate spill area, preventing entry by unauthorized persons. Do not touch spilled material. Do not breathe dusts.

#### 6.2 Environmental precautions:

Avoid releases to the environment and prevent material from entering sewers, natural waterways or storm water management systems.





#### SAFETY DATA SHEET

Revision date: August 1, 2023

#### 6.3 Methods and material for containment and cleaning up:

Move containers from spill area. Avoid dust generation and prevent wind dispersal. Do not dry sweep or blow with compressed air. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labelled waste container. Small spills may be picked up with a damp mop.

#### 6.4 Reference to other sections:

See Section 8 for information on selection of personal protective equipment.

See Section 13 for information on disposal of spilled product and contaminated absorbents. Section 7: Handling and Storage

Section 7: Handling and Storage

#### 7.1 Precautions for safe handling:

Before handling, it is important that engineering controls are operating, protective equipment requirements and personal hygiene measures are being followed. People working with this chemical should be properly trained regarding its hazards and its safe use.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and

understood. Do not breathe dusts.

Wash hands and exposed skin thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing should not be allowed out of the workplace.

Prevent eye contact: Wear protective gloves/ protective clothing and eye protection/face protection.

Static Hazard: Properly ground all pneumatic conveyance systems. The potential exists for static build-up and static discharge when moving cement powders through a plastic, nonconductive, or non-grounded pneumatic conveyance system. Static discharge may result in damage to equipment and injury to workers.

Do not enter a confined space that stores or contains Portland cement unless appropriate procedures and protections are in place. Portland cement can build up or adhere to the walls of a confined space and then release or fall suddenly (engulfment).

#### 7.2 Conditions for safe storage, including any incompatibilities:

Store in a dry, well-ventilated area, away from incompatible materials. Keep containers closed. Protect from moisture/humidity.

Store in a place accessible by authorized persons

only. Store away from food and animal feed.

Keep out of reach of children.

#### Section 8: Exposure Controls / Personal Protection

#### 8.1 Control parameters:

Occupational Exposure Limits: Consult local authorities for acceptable exposure limits.

<u>Ingredient</u>	ACGIH TLV (8-hr.TWA)	<u>U.S. OSHA PEL</u> (8-hr.TWA)	Ontario (Canada) TWA
Portland cement (respirable)*	1 mg/m <sup>3</sup>	15 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable)	1 mg/m <sup>3</sup>
Calcium oxide	2 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>
Crystalline silica (Quartz)	0.025 mg/m <sup>3</sup> (respirable)	0.05 mg/m <sup>3</sup> quartz (respirable)	0.1 mg/m <sup>3</sup> (respirable) Designated Substance
Particles, not otherwise specified*	10 mg/m³ (total dust) 3 mg/m³ (respirable)	15 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable)	10 mg/m³ (inhalable) 3 mg/m³ (respirable)

<sup>\*</sup> value for particulate matter containing no asbestos and less than 1% crystalline silica.





#### SAFETY DATA SHEET

Revision date: August 1, 2023

#### Other Exposure Limits:

NIOSH REL for Portland Cement = 10 mg/m<sup>3</sup> IDLH (Immediately Dangerous to Life or Health) = 5 000 mg/m<sup>3</sup> NIOSH REL for Calcium oxide = 2 mg/m<sup>3</sup> IDLH = 25 mg/m<sup>3</sup>

#### 8.2 Exposure controls:

**Engineering Controls:** Handle product in closed system or area provided with appropriate exhaust ventilation. Handle in accordance with good industrial hygiene and safety practice. Ensure regular cleaning of equipment, work area and clothing.

If engineering controls and work practices are not effective in controlling exposure to this material, then wear suitable personal protective equipment including approved respiratory protection. Have equipment available for use in emergencies such as spills or fire.

#### Section 8: Exposure Controls / Personal Protection, continued

**Personal Protection:** Workers must comply with the Personal Protective Equipment requirements of the workplace in which this product is handled.

**Eye/Face Protection:** Wear approved safety glasses with side-shields or chemical safety goggles. Wear a face-shield or full-face respirator when needed to prevent exposure to airborne dusts. Contact lenses should not be worn.

**Skin Protection:** Wear chemical protective gloves, suit, and boots to prevent skin exposure. Waterproof and cut/abrasion-resistant rubber, such as Heavyweight nitrile gloves, boots and body-covering clothing may be used to prevent dermal exposures to this material and for cleaning and maintenance operations. Evaluate resistance under conditions of use and maintain protective clothing carefully. Contact safety supplier for specifications.

**Respiratory Protection:** Approved respiratory protective equipment (RPE) is required. An approved respirator, N95 rating or higher, must be available in case of accidental releases. Consult with respirator manufacturer to determine respirator selection, use and limitations.

A respiratory protection program that meets the regulatory requirement, such as OSHA's 29 CFR 1910.134, ANSI Z88.2 or Canadian Standards Association (CSA) Standard Z94.4, must be followed whenever workplace conditions warrant a respirator's use.

Other Protection: Have a safety shower and eyewash fountain readily available in the work area.

Every attempt should be made to avoid skin and eye contact with cement. Do not get powder inside boots, shoes or gloves. Do not allow wet, saturated clothing to remain against the skin. Promptly remove clothing and shoes that are dusty or wet with cement mixtures. Wash clothing and shoes thoroughly before reuse.

Do not enter a confined space that stores or contains Portland cement unless appropriate procedures and protections are in place. Portland cement can build up or adhere to the walls of a confined space and then release or fall suddenly (engulfment).

Do not eat, drink or smoke where this material is handled, stored and processed. Wash hands thoroughly before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

**Environmental Exposure Controls:** Emissions from ventilation or work process equipment should be monitored to ensure they comply with the requirements of environmental protection legislation.

#### Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties:	
Appearance:	Solid; grey or white powder
Odour:	Odourless
Odour threshold:	Not applicable
рН:	12 – 13 (ASTM D1293-95)
Melting point/freezing point:	Not applicable
Initial boiling point and boiling range:	Not applicable
Flash point:	Not applicable
Flammability	Not flammable or combustible
Auto-ignition temperature:	Not available
Upper/lower flammability or explosive limits:	Not applicable
Explosive properties:	Not applicable
Oxidising properties:	Not applicable
Sensitivity to mechanical impact:	Not applicable





Revision date: August 1, 2023

#### SAFETY DATA SHEET

Sensitivity to static discharge:	Potential for static build-up and static discharge from powders in	
	plastic, nonconductive or non-grounded pneumatic conveyance	
	systems	
Vapour pressure:	Not applicable	
Vapour density:	Not applicable	
Relative density:	3.15 (water = 1)	
Solubility (ies):	Slightly soluble in water (0.1 – 1%)	
Partition coefficient (n-octanol/water):	Not applicable	
Decomposition temperature:	Not available	
Viscosity:	Not applicable	

#### Section 10: Stability and Reactivity

#### 10.1 Reactivity:

Reacts slowly with water forming hydrated compounds, releasing heat and a strongly alkaline solution.

#### 10.2 Chemical Stability:

Stable at normal ambient and anticipated storage and handling conditions.

#### 10.3 Possibility of Hazardous Reactions:

Aqueous solutions are highly alkaline and may corrode aluminum.

#### 10.4 Conditions to Avoid:

Avoid unintentional contact with water / moisture and with strong acids and other incompatible materials.

#### 10.5 Incompatible Materials:

Strong acids - Incompatible with strong acids; may react

vigorously. Water - reaction generates heat.

Aluminum – Aluminum powder and other alkali earth elements will react in the presence of water liberating extremely flammable hydrogen gas. Calcium oxide is corrosive to aluminum metal.

Reacts with Ammonium salts.

#### 10.6 Hazardous Decomposition Products:

In contact with water and moisture, generates corrosive calcium hydroxide.

#### Section 11: Toxicological Information

#### 11.1 Likely routes of exposure:

Eye and Skin contact, Inhalation of dust.

#### 11.2 Acute toxicity data:

Data not available for the mixture.

#### Skin corrosion / irritation:

Based on information for Portland Cement and Calcium oxide: Causes skin irritation. May cause caustic burns when in prolonged contact with the skin.

Irritating or corrosive to mouth, throat and gastro-intestinal tract.

Based on information for Chromate compounds: Causes skin irritation and ulcers may develop at the site of skin damage.

#### Serious eye damage / irritation:

Based on information for Portland Cement and Calcium oxide: Causes serious eye damage and possible blindness. Damage may be permanent if treatment is not immediate.

#### STOT (Specific Target Organ Toxicity) Single Exposure:

Breathing dusts causes respiratory irritation. Inflammation of the respiratory passages, ulceration and perforation of the nasal septum and pneumonia has been attributed to the inhalation of dust containing calcium oxide.





Revision date: August 1, 2023

#### SAFETY DATA SHEET

#### Aspiration hazard:

This material is corrosive; if aspiration into the lungs occurs during vomiting, severe lung damage may result.

#### 11.3 Chronic toxicity:

#### STOT (Specific Target Organ Toxicity) Repeated Exposure:

Prolonged and repeated breathing of dust may cause lung disease. The extent and severity of lung injury correlates with the length of exposure and dust concentration. Inflammation of the respiratory passages, ulceration and perforation of the nasal septum and pneumonia has been attributed to the inhalation of dust containing calcium oxide.

Contains crystalline silica. Long-term exposure to fine airborne crystalline silica dust may cause silicosis a form of pulmonary fibrosis that can cause shortness of breath, cough and reduced lung function. Exposure may also cause chronic obstructive pulmonary disease (COPD) and weight loss. In severe cases, there may be effects on the heart and death from heart failure. Particles with diameters less than 1 micrometer are considered most hazardous.

#### Respiratory and / or skin sensitization:

Product may contain trace concentrations (<0.1%) of Chromate and Nickel compounds that can cause an allergic skin reaction. Further skin contact may result in inflammation, rash and itching. Not known to be a respiratory sensitizer.

Based on information for Portland Cement: Causes exertional dyspnea (breathing difficulty), wheezing, chronic bronchitis. Repeated or prolonged contact with skin may cause dermatitis. Repeated or prolonged contact may cause skin sensitization.

Based on information for Calcium oxide: Repeated or prolonged contact with skin may cause dermatitis.

#### Germ cell mutagenicity:

Not available

#### Section 11: Toxicological Information, continued

#### Reproductive effects:

Not available

#### **Developmental effects:**

Not available

#### Effects on or via lactation:

Data are not available.

#### Carcinogenicity:

Portland cement is not classifiable as a human carcinogen. Crystalline silica is considered a hazard by inhalation. IARC has classified crystalline silica, chromate (chromium VI) and nickel as Group 1 substances, carcinogenic to humans. This classification is based on the findings of laboratory animal studies (inhalation and implantation) and epidemiology studies that were considered sufficient for carcinogenicity.

#### Interactions with other chemicals:

Not available





#### SAFETY DATA SHEET

Revision date: August 1, 2023

#### Section 12: Ecological Information

#### 12.1 Toxicity:

Harmful to aquatic life. Contact with water forms an alkaline solution. Avoid release to the environment. Data for Calcium oxide:

96 hour LC<sub>50</sub> freshwater fish Cyprinus carpio = 1 070 mg/L (static).

Chronic 46 day NOEC freshwater fish Oreochromis niloticus juvenile(fledgling, hatchling, weanling)= 100 mg/L

Product may contain trace concentrations (<0.1%) of Nickel compounds that can decrease survival in the offspring of rats exposed to nickel in drinking water.

#### 12.2 Persistence and degradability:

Not available

#### 12.3 Bioaccumulative potential:

Not available

#### 12.4 Mobility in soil:

Not available

#### 12.5 Other adverse effects:

Not available

#### Section 13: Disposal Considerations

#### 13.1 Disposal methods:

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Untreated waste should not be released to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe manner. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff, and contact with soil, waterways, drains and sewers.





Revision date: August 1, 2023

#### SAFETY DATA SHEET

Section 14: Transport Information

14.1 UN Number

Cement is not covered by international transport regulations (IMDG, UN Model Regulations).

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

Not available

14.6 Special precautions for user

Not available

14.7 U.S. Hazardous Materials Regulation (DOT 49CFR):

Not regulated except for transport by aircraft.

14.8 Canada Transportation of Dangerous Goods (TDG) Regulations:

Not regulated except for transport by aircraft.

#### Section 15: Regulatory Information

## 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture: USA

#### TSCA Status:

Substances are listed on the TSCA inventory or are exempt.

#### OSHA HazCom 2012 Hazards:

Skin Irritation Cat. 2 Eye Damage Cat. 1

Specific Target Organ Toxicity, Single Exposure, Cat. 3

Carcinogenicity Cat. 1 (inhalation)

Specific Target Organ Toxicity, Repeated Exposure, Cat. 1 (inhalation)

#### Canada

This product has been classified in accordance with the hazard criteria of the *Controlled Products Regulations* and the SDS contains all the information required by the *Controlled Products Regulations*.

#### WHMIS 1988 Classification:

D2A - Other toxic effects – Untested mixture containing Crystalline silica.

E – Corrosive –Mixture containing Calcium oxide and Calcium oxide; pH >12

#### **NSNR Status:**

Substances are listed on the on the DSL or are exempt.

#### International Inventories:

Australia: Substances are listed on the Inventory of Chemical Substances (AICS).

**China:** Substances are listed on the Inventory. Portland cement IECSC 25714.

**European Union:** Portland Cement EC # 266-043-4. All other substances are listed on EINECS.

Japan: Not available.

Korea: Substances are listed on the inventory. Portland cement KE-29067

Mexico: Substances are listed on the inventory (INSQ) or are exempt.

New Zealand: Substances are listed on the Inventory.

Philippines: Substances are listed on the Inventory of Chemicals and Chemical Substances (PICCS).





#### SAFETY DATA SHEET

Revision date: August 1, 2023

Section 16: Other Information

**Revision date:** 

August 1, 2023

References and sources for data:

CCOHS, Cheminfo

RTECS, Registry of Toxic Effects of Chemical Substances

NIOSH, Pocket Guide to Chemical Hazards. ICSC, International Chemical Safety Cards

#### Methods for classification of mixtures:

USA: Haz Com Standard 29 CFR 1910.1200 (2012)

Canada: Controlled Products Regulations.

UNECE, Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

#### Legend to abbreviations:

ACGIH – American Conference of Governmental Industrial Hygienists GHS- Globally Harmonized System for Classification and Labeling. NIOSH – National Institute for Occupational Safety and Health

OEL- Occupational exposure limit

OSHA - Occupational Safety and Health Administration

PEL - Permissible Exposure Level

PBT- Persistent, Bioaccumulative and Toxic substances

TWA – Time weighted average TLV - Threshold Limit Value

vPvB- Very Persistent, very Bioaccumulative substances WHMIS – Workplace Hazardous Materials Information System.

Additional information:

Portland cement should only be used by trained, knowledgeable persons. This safety data sheet is believed to provide a useful summary of the hazards of Portland cement as it is commonly used, but cannot anticipate and provide all of the information that might be needed in every situation. In particular, the data furnished in this sheet do not address hazards that may be posed by other materials mixed with Portland cement products.

SELLER MAKES NO WARRANTY, EXPRESSED OR IMPLIED, CONCERNING THE PRODUCT OF THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE OR CONCERNING THE ACCURACY OF ANY INFORMATION PROVIDED BY ST. MARYS CEMENT, EXCEPT THAT THE PRODUCT SHALL CONFORM TO CONTRACTED SPECIFICATIONS. The information provided herein was believed by St. Marys Cement to be accurate at the time of preparation or prepared from sources believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information to comply with all laws and procedures applicable to the safe handling and use of product and to determine the suitability of the product for its intended use. Buyer's exclusive remedy shall be for damages and no claim of any kind, whether as for product delivered or for non-delivery of product, and whether based on contract, breach of warranty, negligence, or otherwise, shall be greater in amount than the purchase price of the quantity of product in respect of which damages are claimed. In no event shall Seller be liable for incidental or consequential damages, whether Buyer's claim is based on contract, breach of warranty, negligence or otherwise.

#### Prepared by:

EXP Services Inc. www.exp.com

While EXP Services Inc. (EXP) believes that the data set forth herein is accurate, as of the date hereof, EXP makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data is offered solely for your consideration, investigation and verification.



#### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 6/12/2023 Version: 1.0

#### **SECTION 1: Identification**

#### 1.1. Identification

Product form : Mixture
Trade name : Rub-O-Matic

Product code : 704, 704G, 704-5G, 704-55G

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Rubber

Cleaner

Restrictions on use : No additional information available

#### 1.3. Supplier

#### Manufacturer

Tech International 200 East Coshocton Street Johnstown, OH 43031, USA 1-740-967-9015 www.tech-international.com

#### 1.4. Emergency telephone number

Emergency number : CHEMTREC

Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1-703-527-3887

Local: +1 703-741-5970

#### **SECTION 2: Hazard(s) identification**

#### 2.1. Classification of the substance or mixture

#### **GHS US classification**

Flammable liquids Category 2 H225 Highly flammable liquid and vapor

Skin corrosion/irritation Category 2 H315 Causes skin irritation

Specific target organ toxicity - Single exposure, Category 3, Narcosis H336 May cause drowsiness or dizziness

Aspiration hazard Category 1 H304 May be fatal if swallowed and enters airways Hazardous to the aquatic environment – Chronic Hazard Category 2 H411 Toxic to aquatic life with long lasting effects

Full text of H statements : see section 16

#### 2.2. GHS Label elements, including precautionary statements

#### **GHS US labeling**

Hazard pictograms (GHS US)









Signal word (GHS US) : Danger

Hazard statements (GHS US) : H225 - Highly flammable liquid and vapor

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H336 - May cause drowsiness or dizziness H411 - Toxic to aquatic life with long lasting effects

6/12/2023 (Issue date) US - en 1/13

#### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Precautionary statements (GHS US)

 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280 - Wear protective clothing, eye protection, face protection, protective gloves.

P261 - Avoid breathing dust, fume, gas, mist, spray, vapors.

P271 - Use only outdoors or in a well-ventilated area.

P301+P310 - If swallowed: Immediately call a POISON CENTER, a doctor.

#### 2.3. Other hazards which do not result in classification

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

No additional information available

#### **SECTION 3: Composition/Information on ingredients**

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Comments

: The exact percentage (concentration) in the composition has been withheld as a trade secret in accordance with paragraph (i) of § 1910.1200

Name	Product identifier	%	GHS US classification
Heptane, branched, cyclic and linear	CAS-No.: 64742-49-0	> 80 - < 100	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Heptane	CAS-No.: 142-82-5	< 5	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of hazard classes and H-statements: see section 16

#### **SECTION 4: First-aid measures**

#### 4.1. Description of first aid measures

First-aid measures after inhalation

First-aid measures after skin contact

First-aid measures after eye contact

First-aid measures after ingestion

: If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Give oxygen or artificial respiration if necessary. If experiencing respiratory symptoms: Call a poison center or a doctor.

: Wash skin thoroughly with mild soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persists.

If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting/risk of damage to lungs exceeds poisoning risk. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person.

6/12/2023 (Issue date) US - en 2/13

#### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation : May cause drowsiness or dizziness. In high concentrations vapors cause anesthetic and narcotic

effect.

Symptoms/effects after skin contact : Causes skin irritation. Redness. Itching. Swelling. Symptoms/effects after eye contact : Lacrimation. redness, itching, tears. Blurred vision.

Symptoms/effects after ingestion : May be fatal if swallowed and enters airways. Ingestion may cause nausea and vomiting.

Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis.

#### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

#### **SECTION 5: Fire-fighting measures**

#### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Dry powder. Carbon dioxide. Water spray. Foam. Use extinguishing agent suitable for

surrounding fire.

Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Specific hazards arising from the chemical

Fire hazard : Highly flammable liquid and vapor. Vapors are heavier than air and may travel considerable

distance to an ignition source and flash back to source of vapors. Heating will cause a rise in pressure with a risk of bursting. In case of fire and/or explosion do not breathe fumes.

Hazardous decomposition products in case of fire : Toxic fumes may be released. Carbon dioxide. Carbon monoxide.

#### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Evacuate the danger area. Eliminate all ignition sources if safe to do so. Move containers from

fire area if it can be done without personal risk. Use water spray or fog for cooling exposed containers. Fight fire from safe distance and protected location. Use extinguishing media appropriate for surrounding fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Wear a self contained breathing apparatus. Wear fire/flame resistant/retardant clothing. Do not

attempt to take action without suitable protective equipment.

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : No flames, no sparks. Eliminate all sources of ignition. Use special care to avoid static electric

charges. Avoid all contact with skin, eyes, or clothing.

#### 6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Evacuate unnecessary personnel. Ventilate spillage area. Avoid contact with skin and eyes.

Avoid breathing vapors. Do not touch or walk on the spilled product. No action shall be taken

without appropriate training or involving any personal risk.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment.

Emergency procedures : Evacuate unnecessary personnel. Use non-sparking tools. Ventilate area.

#### 6.2. Environmental precautions

Avoid release to the environment. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Notify authorities if product enters sewers or public waters.

6/12/2023 (Issue date) US - en 3/13

#### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### 6.3. Methods and material for containment and cleaning up

For containment : Stop leak, if po

: Stop leak, if possible without risk. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Remove ignition sources. Caution: this product can

cause the floor to be slippery.

Methods for cleaning up : Move containers from spill area. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. For large spills, confine the spill in a

dike and charge it with wet sand or earth for subsequent safe disposal. Clean contaminated surfaces with an excess of water. Prevent entry to sewers and public waters. Use non-sparking

tools.

Other information : Dispose of via an authorised person/ licensed waste disposal contractor or by other suitable waste treatment techniques. Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13. For further information refer to section 8: "Exposure controls/personal protection".

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling

: Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Ensure good ventilation of the work station. Provide local exhaust or general room ventilation. Do not breathe vapors. Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Eliminate all ignition sources if safe to do so. Take precautionary measures against static discharge. Use explosion-proof equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not re-use container for any

Hygiene measures

: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Keep only in the original container in a cool, well ventilated place away from : Direct sunlight, Strong oxidizers. Store in a dry place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from food, drink and animal feedingstuffs. Keep container tightly closed. Containers which are opened should be properly resealed and kept upright to prevent leakage. Store in accordance with local, regional, national or international regulation. Do not store in unlabelled containers.

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

#### **Rub-O-Matic**

No additional information available

#### Heptane, branched, cyclic and linear (64742-49-0)

No additional information available

#### Heptane (142-82-5)

#### **USA - ACGIH - Occupational Exposure Limits**

Local name Heptane, isomers (n-Heptane)

6/12/2023 (Issue date) US - en 4/13

#### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Heptane (142-82-5)		
ACGIH OEL TWA [ppm]	400 ppm	
ACGIH OEL STEL [ppm]	500 ppm	
Remark (ACGIH)	TLV® Basis: CNS impair; URT irr	
Regulatory reference	ACGIH 2023	
USA - OSHA - Occupational Exposure Limits		
Local name	Heptane (n-Heptane)	
OSHA PEL (TWA) [1]	2000 mg/m³	
OSHA PEL (TWA) [2]	500 ppm	
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1	
Monitoring methods		
Monitoring methods	Refer to all applicable national, international and local regulations or provisions.	

#### 8.2. Appropriate engineering controls

Appropriate engineering controls : Provide local exhaust or general room ventilation. Ensure exposure is below occupational

exposure limits (where available). Handle in accordance with good industrial hygiene and safety procedures. Avoid all unnecessary exposure. Emergency eye wash fountains and safety

showers should be available in the immediate vicinity of any potential exposure.

Environmental exposure controls : Avoid release to the environment. Technical onsite conditions and measures to reduce or limit

discharges, air emissions and releases to soil.

#### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Wear recommended personal protective equipment. Personal protective equipment should be chosen according to the NIOSH standards and in discussion with the supplier of the protective equipment.

#### Hand protection:

Wear suitable gloves resistant to chemical penetration. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer

#### Eye protection:

Chemical goggles or safety glasses

#### Skin and body protection:

Wear suitable protective clothing. Skin protection appropriate to the conditions of use should be provided

#### Respiratory protection:

An approved organic vapor respirator/supplied air or self-contained breathing apparatus must be used when vapor concentration exceeds applicable exposure limits

### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : clear.
Color : Colorless
Odor : strong solvent-like

6/12/2023 (Issue date) US - en 5/13

#### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Odor threshold : No data available pH : No data available Melting point : No data available Freezing point : No data available Boiling point : 88 °C (190 °F) Flash point : -9 °C (15 °F)

Relative evaporation rate (butyl acetate=1) : > 1

Flammability (solid, gas) : Highly flammable liquid and vapor.

Vapor pressure 119 mm Hg (20 °C) Relative vapor density at 20°C No data available No data available Relative density : 0.69 g/cm3 (20 °C) Density Solubility : No data available Partition coefficient n-octanol/water (Log Pow) : No data available Auto-ignition temperature : No data available Decomposition temperature : No data available Viscosity, kinematic : 0.83 mm<sup>2</sup>/s (15.6 °C) Viscosity, dynamic No data available

Explosion limits : Lower explosion limit: 1.2 vol %

Upper explosion limit: 6.7 vol %

Explosive properties : No data available Oxidizing properties : No data available

#### 9.2. Other information

VOC content : 691 g/l

#### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Highly flammable liquid and vapor. Can form explosive mixtures with air. Heating may cause a fire or explosion.

#### 10.2. Chemical stability

Stable under normal conditions of use.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Hazardous polymerization: Will not occur.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7). Protect from sunlight. Overheating. Extremely high or low temperatures. No flames, no sparks. Eliminate all sources of ignition.

#### 10.5. Incompatible materials

Oxidising agents.

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

#### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified Acute toxicity (dermal) : Not classified

#### Safety Data Sheet

Acute toxicity (inhalation)

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Heptane, branched, cyclic and linear (64742-49-0)		
LD50 oral rat	> 5000 mg/kg	
LD50 dermal rabbit	> 2000 mg/kg	
LC50 Inhalation - Rat (Vapours) > 4.42 mg/l/4h		
Heptane (142-82-5)		

: Not classified

Heptane (142-82-5)	
LD50 oral rat	> 5000 mg/kg
LD50 oral	5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LD50 dermal	3000 mg/kg
LC50 Inhalation - Rat (Vapours)	> 29.29 mg/l/4h
Skin corrosion/irritation : Causes skin irritation.	

Serious eye damage/irritation Not classified Respiratory or skin sensitization Not classified Germ cell mutagenicity Not classified Carcinogenicity Not classified Not classified Reproductive toxicity

STOT-single exposure : May cause drowsiness or dizziness.

Heptane,	branched,	cyclic and	linear (	(64742-49-0)
,	,	-,		

STOT-single exposure	Ma	v cause drowsiness or dizziness.
O I O I diligio oxpodulo	1110	y dadoo drowdiiidda dr dizziiidda.

#### Heptane (142-82-5)

STOT-single exposure May cause drowsiness or dizziness.

STOT-repeated exposure Not classified

Aspiration hazard May be fatal if swallowed and enters airways.

0.83 mm<sup>2</sup>/s (15.6 °C) Viscosity, kinematic

Hantone	bronched	avelie en	d linear i	(64742-49-0)
neorane.	oranieneo	. CVCIIC and		104/4Z-49-U1

Viscosity, kinematic	0.83 mm²/s (15.6 °C)
Symptoms/effects after inhalation	May cause drowsiness or dizziness. In high concentrations vapors cause anesthetic and narcotic

effect.

Symptoms/effects after skin contact : Causes skin irritation. Redness. Itching. Swelling. Symptoms/effects after eye contact Lacrimation. redness, itching, tears. Blurred vision.

Symptoms/effects after ingestion May be fatal if swallowed and enters airways. Ingestion may cause nausea and vomiting. Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis.

Other information No experimental study on the product is available. The information given is based on our

knowledge of the components and the classification of the product is determined by calculation.

#### **SECTION 12: Ecological information**

#### 12.1. Toxicity

Ecology - general : Toxic to aquatic life with long lasting effects. Do not allow product to spread into the environment.

Heptane, branched, cyclic and linear (64742-49-0)	
EC50 - Crustacea [1]	4.5 mg/l (Daphnia magna)
ErC50 algae	3.1 mg/l (72h, Selenastrum capricornutum)

6/12/2023 (Issue date) US - en 7/13

#### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Heptane, branched, cyclic and linear (64742-49-0)	
NOEC chronic crustacea	10 mg/l (10d, Daphnia magna)
Heptane (142-82-5)	
LC50 - Fish [1]	4 mg/l (Carassius auratus)
EC50 - Crustacea [1]	1.15 mg/l

#### 12.2. Persistence and degradability

Rub-O-Matic		
Persistence and degradability	Biodegradability in water: no data available.	
Heptane, branched, cyclic and linear (64742-49-0)		
Not rapidly degradable  Heptane (142-82-5)		
		Persistence and degradability

#### 12.3. Bioaccumulative potential

Rub-O-Matic	
Bioaccumulative potential	No data available concerning bioaccumulation.
Heptane (142-82-5)	
Bioconcentration factor (BCF REACH)	552

#### 12.4. Mobility in soil

Rub-O-Matic	
Ecology - soil	No additional information available.
Heptane (142-82-5)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.38

#### 12.5. Other adverse effects

Other adverse effects : No other effects known.

#### **SECTION 13: Disposal considerations**

#### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions. Sewage disposal recommendations Do not dispose of waste into sewer. Product/Packaging disposal recommendations Dispose in a safe manner in accordance with local/national regulations. Do not dispose of the

packaging without first carrying out the necessary cleaning. Do not pierce or burn, even after

Additional information Flammable vapors may accumulate in the container.

Ecology - waste materials Avoid release to the environment.

6/12/2023 (Issue date) US - en 8/13

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### **SECTION 14: Transport information**

In accordance with DOT / TDG / IMDG / IATA

#### 14.1. UN number

DOT NA NO : UN1206 UN-No. (TDG) : UN1206 UN-No. (IMDG) : 1206 UN-No. (IATA) : 1206

## 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Heptanes
Proper Shipping Name (TDG) : HEPTANES
Proper Shipping Name (IMDG) : HEPTANES
Proper Shipping Name (IATA) : Heptanes

#### 14.3. Transport hazard class(es)

#### DOT

Transport hazard class(es) (DOT) : 3
Hazard labels (DOT) : 3



#### **TDG**

Transport hazard class(es) (TDG) : 3 Hazard labels (TDG) : 3



#### **IMDG**

Transport hazard class(es) (IMDG) : 3
Hazard labels (IMDG) : 3



#### **IATA**

Transport hazard class(es) (IATA) : 3
Hazard labels (IATA) : 3



#### 14.4. Packing group

Packing group (DOT) : II
Packing group (TDG) : II
Packing group (IMDG) : II
Packing group (IATA) : II

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### 14.5. Environmental hazards

Dangerous for the environment : Yes
Marine pollutant : Yes



Other information : No supplementary information available.

#### 14.6. Special precautions for user

**DOT** 

UN-No.(DOT) : UN1206

DOT Special Provisions (49 CFR 172.102) : IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite

(31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110

kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.

T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3)

TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image)

Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59

F) and 50 C (122 F), respectively.

DOT Packaging Exceptions (49 CFR 173.xxx) : 150
DOT Packaging Non Bulk (49 CFR 173.xxx) : 202
DOT Packaging Bulk (49 CFR 173.xxx) : 242
DOT Quantity Limitations Passenger aircraft/rail (49 : 5 L

CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 60 L

CFR 175.75)

DOT Vessel Stowage Location : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this

section is exceeded.

TDG

UN-No. (TDG) : UN1206
Explosive Limit and Limited Quantity Index : 1 L
Excepted quantities (TDG) : E2
Passenger Carrying Road Vehicle or Passenger : 5 L

Carrying Railway Vehicle Index

Emergency Response Guide (ERG) Number : 128

6/12/2023 (Issue date) US - en 10/13

#### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### **IMDG**

Limited quantities (IMDG) : 1 L

Excepted quantities (IMDG) : E2

Packing instructions (IMDG) : P001

IBC packing instructions (IMDG) : IBC02

Tank instructions (IMDG) : T4

Tank special provisions (IMDG) : TP2

EmS-No. (Fire) : F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS

EmS-No. (Spillage) : S-D - SPILLAGE SCHEDULE Delta - FLAMMABLE LIQUIDS

Stowage category (IMDG) : B

Properties and observations (IMDG) : Colourless, volatile liquids. Explosive limits: 1.1% to 6.7% n-HEPTANE: flashpoint -4°C c.c.

Immiscible with water. Irritating to skin, eyes and mucous membranes.

#### **IATA**

PCA Excepted quantities (IATA) : E2 PCA Limited quantities (IATA) : Y341 PCA limited quantity max net quantity (IATA) : 1L PCA packing instructions (IATA) 353 : 5L PCA max net quantity (IATA) CAO packing instructions (IATA) : 364 CAO max net quantity (IATA) : 60L ERG code (IATA) : 3H

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

#### **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

#### 15.2. International regulations

#### CANADA

#### Heptane, branched, cyclic and linear (64742-49-0)

Listed on the Canadian DSL (Domestic Substances List)

# Heptane (142-82-5)

Listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

No additional information available

#### **National regulations**

#### Heptane, branched, cyclic and linear (64742-49-0)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### Heptane (142-82-5)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

## **SECTION 16: Other information**

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Data sources : ECHA (European Chemicals Agency). Supplier's safety documents.

Training advice : Training staff on good practice.

Full text of H-phrases			
H225	Highly flammable liquid and vapor		
H304	May be fatal if swallowed and enters airways		
H315	Causes skin irritation		
H336	May cause drowsiness or dizziness		
H400	Very toxic to aquatic life		
H410	Very toxic to aquatic life with long lasting effects		
H411	Toxic to aquatic life with long lasting effects		

Abbreviations	Abbreviations and acronyms				
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways				
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road				
ATE	Acute Toxicity Estimate				
BLV	Biological limit value				
CAS-No.	Chemical Abstract Service number				
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008				
DMEL	Derived Minimal Effect level				
DNEL	Derived-No Effect Level				
EC50	Median effective concentration				
EC-No.	European Community number				
EN	European Standard				
IATA	International Air Transport Association				
IMDG	International Maritime Dangerous Goods				
LC50	Median lethal concentration				
LD50	Median lethal dose				
LOAEL	Lowest Observed Adverse Effect Level				
NOAEC	No-Observed Adverse Effect Concentration				

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Abbreviation	Abbreviations and acronyms			
NOAEL	No-Observed Adverse Effect Level			
NOEC	No-Observed Effect Concentration			
OEL	Occupational Exposure Limit			
PBT	Persistent Bioaccumulative Toxic			
PNEC	Predicted No-Effect Concentration			
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006			
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail			
SDS	Safety Data Sheet			
vPvB	Very Persistent and Very Bioaccumulative			
WGK	Water Hazard Class			

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.



Issuing Date: 1-Jun-2008 Revision Date: 27-Mar-2015 SDS Number: 9118

# 1. Identification of the Substance / Preparation and of the Company / Undertaking

**Product identifier** 

**Product Name** Super Tech -20 degree Windshield Washer Fluid

**Stock Numbers** 115205 / 115201

Other means of identification

**Synonyms** None

Recommended use of the chemical and restrictions on use

**Recommended Use** Windshield Wiper Fluid

Uses advised against No information available

Details of the supplier of the safety data sheet

**Supplier Name** South/Win, Ltd **Supplier Address** 112 Maxfield Rd.

Greensboro, NC 27405 US

**Supplier Phone Number** Phone: (800) 648-4393

Fax: (336) 398-5680

Contact Nikki Lytle (479) 531-0575

**Supplier Email** Nikki.lytle@cox-internet.com

**Emergency Telephone Number** CHEMTREC: (800) 424-9300

**Distributor** Wal-Mart Stores Incorporated

Bentonville, AR USA 72716

### 2. Hazards Identification

#### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 3
Acute toxicity - Inhalation (Vapors)	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 4



Issuing Date: 1-Jun-2008 Revision Date: 27-Mar-2015 SDS Number: 9118

Specific target organ toxicity (single exposure)	Category 1
Flammable liquids	Category 3

#### GHS Label elements, including precautionary statements

#### Emergency Overview

# Signal Word Danger

#### **Hazard Statement:**

Harmful if swallowed Toxic if contact with skin Toxic if inhaled Causes damage to organs Flammable liquid and vapor



Appearance Blue

Physical State Liquid

Odor Mild Alcohol

#### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face protection

Use only outdoors or in a well-ventilated area

Do not breathe dust/fume/gas/mist/vapors/spray

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Keep container tightly closed

Ground/bond container and receiving equipment

Use explosion-proof electrical/ ventilating/ lighting/ equipment

Use only non-sparking tools

Take precautionary measures against static discharge

Keep cool

#### **Precautionary Statements - Response**

IF exposed: Call a POISON CENTER or doctor/physician

Specific treatment (see supplemental first aid instructions on this label)

#### Skin

Call a POISON CENTER or doctor/physician if you feel unwell

Wash contaminated clothing before reuse

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

#### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician



Issuing Date: 1-Jun-2008 Revision Date: 27-Mar-2015 SDS Number: 9118

#### Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth

#### Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

#### **Precautionary Statements - Storage**

Store locked up

Store in a well-ventilated place. Keep container tightly closed

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### **Hazards not otherwise classified (HNOC)**

Not applicable

#### **Unknown Toxicity**

0.1% of the mixture consists of ingredient(s) of unknown toxicity

# Other information

PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION

#### **Interactions with Other Chemicals**

Use of alcoholic beverages may enhance toxic effects.

#### 3. Composition / Information on Ingredients

Chemical Name	CAS No	Weight-%	Trade Secret
Methyl alcohol	67-56-1	30 - 40	*

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret

#### 4. First Aid Measures

## First aid measures

General Advice Show this safety data sheet to the doctor in attendance. Immediate medical

attention is required.



Revision Date: 27-Mar-2015 SDS Number: 9118 Issuing Date: 1-Jun-2008

**Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15

> minutes. Keep eye wide open while rinsing. Do not rub affected area. Seek immediate medical attention/advice. Remove contact lenses, if present and

easy to do. Continue rinsing.

**Skin Contact** Immediate medical attention is required. Wash off immediately with soap and

plenty of water while removing all contaminated clothes and shoes.

Inhalation Remove to fresh air. If not breathing, give artificial respiration. If breathing is

difficult, (trained personnel should) give oxygen.

Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water. Ingestion

Never give anything by mouth to an unconscious person. Call a physician or

poison control center immediately.

first aider

Self-protection of the Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

Most important symptoms and effects, both acute and delayed

Most Important

Coughing and/ or wheezing. Difficulty in breathing.

**Symptoms and Effects** 

Indication of any immediate medical attention and special treatment needed

**Notes to Physician** 

Treat symptomatically.

# 5. Fire-fighting Measures

#### Suitable Extinguishing Media

Dry chemical, CO2, water spray or regular foam. Use water spray or fog; do not use straight streams.

#### Unsuitable extinguishing media

CAUTION: All these products have a very low flash point. Use of water spray when fighting fire may be inefficient.

# **Specific Hazards Arising from the Chemical**

Some may be transported hot.

Uniform Fire Code Flammable Liquid: I-C

#### **Hazardous Combustion Products**

Carbon oxides.

**Explosion Data** 



Issuing Date: 1-Jun-2008 Revision Date: 27-Mar-2015 SDS Number: 9118

Sensitivity to Mechanical No.

Impact

Sensitivity to Static

Yes.

**Discharge** 

#### Protective equipment and precautions for firefighters

Move containers from fire area if you can do it without risk.

#### 6. Accidental Release Measures

#### Personal precautions, protective equipment and emergency procedures

Personal Precautions Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use

personal protective equipment as required. Evacuate personnel to safe areas. Do not breathe vapor or mist. Keep people away from and upwind of spill/leak. See section 8 for more information. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled

material.

Other Information Water spray may reduce vapor; but may not prevent ignition in closed spaces.

#### **Environmental Precautions**

Environmental Precautions

Prevent entry into waterways, sewers, basements or confined areas.

#### Methods and material for containment and cleaning up

**Methods for Containment** A vapor suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

**Methods for cleaning up** Use clean non-sparking tools to collect absorbed material. Dike far ahead of liquid spill

for later disposal. Soak up with inert absorbent material. Pick up and transfer to

properly labeled containers.



Issuing Date: 1-Jun-2008 Revision Date: 27-Mar-2015 SDS Number: 9118

### 7. Handling and Storage

#### Precautions for safe handling

#### Handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Do not breathe vapor or mist. Use only with adequate ventilation and in closed systems. Use personal protection equipment. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions.

#### Conditions for safe storage, including any incompatibilities

**Storage** 

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Protect from moisture. Store away from other materials. Store locked up. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations.

**Incompatible Products** 

None known based on information supplied.

#### 8. Exposure Controls / Personal Protection

#### **Control parameters**

#### **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Methyl alcohol	STEL = 250 ppm	TWA: 200 ppm	IDLH: 6000 ppm
67-56-1	TWA: 200 ppm	TWA: 260 mg/m <sup>3</sup>	TWA: 200 ppm
	S*	(vacated) TWA: 200 ppm	TWA: 260 mg/m <sup>3</sup>
		(vacated) TWA: 260	STEL: 325 mg/m <sup>3</sup>
		mg/m <sup>3</sup>	STEL: 250 ppm
		(vacated) STEL: 250 ppm	
		(vacated) STEL: 325	
		mg/m <sup>3</sup>	
		(vacated) S*	

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits Immediately Dangerous to Life or Health

Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992) See section 15 for national exposure control parameters



Issuing Date: 1-Jun-2008 Revision Date: 27-Mar-2015 SDS Number: 9118

#### Appropriate engineering controls

**Engineering Measures** Showers

Eyewash stations Ventilation systems

#### Individual protection measures, such as personal protective equipment

Eye/Face Protection None required for consumer use. If splashes are likely to occur:. Wear safety glasses

with side shields (or goggles).

Skin and Body Protection None required for consumer use. Repeated or prolonged contact:. Wear protective

gloves and protective clothing.

Respiratory Protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice. Do not

eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. No information available. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Do not breathe vapor or mist. Contaminated work clothing should not be allowed out of the workplace.

#### 9. Physical and Chemical Properties

#### **Physical and Chemical Properties**

Physical StateLiquidAppearanceLiquidOdorMild Alcohol

Color Blue Odor Threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks Method</u>

pН 8.5 None known Melting / freezing point No data available None known 86 °C / 187 °F Boiling point / boiling range None known Flash Point 29 °C / 85 °F None known **Evaporation Rate** No data available None known Flammability (solid, gas) No data available None known

Flammability Limit in Air
Upper flammability limit
Lower flammability limit
No data available
No data available

Vapor pressureNo data availableNone knownVapor densityNo data availableNone known



Issuing Date: 1-Jun-2008	Revision Date: 27-Mar-2015	SDS Number: 9118

**Specific Gravity** No data available None known **Water Solubility** Miscible in water None known Solubility in other solvents No data available None known Partition coefficient: n-octanol/water No data available None known

**Autoignition temperature** No data available None known **Decomposition temperature** No data available None known Kinematic viscosity No data available None known No data available Dynamic viscosity None known **Explosive properties** No data available Oxidizing Properties

**Other Information** 

**Softening Point** No data available **VOC Content (%)** No data available **Particle Size** No data available

**Particle Size Distribution** 

# 10. Stability and Reactivity

No data available

#### Reactivity

No data available.

#### Chemical stability

Stable under recommended storage conditions.

#### **Possibility of Hazardous Reactions**

None under normal processing.

#### **Hazardous Polymerization**

Hazardous polymerization does not occur.

#### **Conditions to avoid**

Excessive heat. Heat, flames and sparks.

#### **Incompatible materials**

None known based on information supplied.

#### **Hazardous Decomposition Products**

Carbon oxides.

#### 11. Toxicological Information

#### Information on likely routes of exposure

**Product Information** 



Issuing Date: 1-Jun-2008 Revision Date: 27-Mar-2015 SDS Number: 9118

**Inhalation** Specific test data for the substance or mixture is not available. Toxic by inhalation.

(based on components).

**Eye Contact** Specific test data for the substance or mixture is not available.

**Skin Contact** Specific test data for the substance or mixture is not available. Toxic in contact

with skin. May be absorbed through the skin in harmful amounts. (based on

components).

Ingestion Specific test data for the substance or mixture is not available. May be harmful if

swallowed. (based on components).

#### **Component Information**

Che	emical Name	Oral LD50	Dermal LD50	Inhalation LC50
Me	ethyl alcohol 67-56-1	= 5628 mg/kg(Rat)	-	= 83.2 mg/L (Rat)4 h

#### Information on toxicological effects

**Symptoms** Coughing and/ or wheezing. Difficulty in breathing.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Sensitization** No information available.

Mutagenic Effects No information available.

**Carcinogenicity** Contains no ingredient listed as a carcinogen.

**Reproductive Toxicity** No information available.

STOT - single exposure Based on classification criteria from the 2012 OSHA Hazard Communication

Standard (29 CFR 1910.1200), this product has been determined to cause systemic target organ toxicity from acute exposure. (STOT SE). If this product is a mixture, the classification is not based on toxicology studies for this product, but is based solely on toxicology studies for ingredients found within this product. Detailed substance and/or ingredient information may be provided in other sections of this SDS. Target organs effects listed in this document may result from a single overexposure to this product. Causes damage to organs if

swallowed. Causes damage to organs in contact with skin.

STOT - repeated

exposure

No information available.

Chronic Toxicity No known effect based on information supplied. Effects from this product caused

by acute exposure may cause permanent damage to target organs and/or may

cause chronic conditions.



Issuing Date: 1-Jun-2008 Revision Date: 27-Mar-2015 SDS Number: 9118

Target Organ Effects Respiratory system. Systemic Toxicity. Central Nervous System (CNS). Eyes.

Gastrointestinal tract (GI). Skin.

Aspiration Hazard No information available.

Numerical measures of toxicity Product Information

The following values are calculated based on chapter 3.1 of the GHS document

 ATEmix (oral)
 323.00 mg/kg

 ATEmix (dermal)
 968.00 mg/kg (ATE)

ATEmix (inhalation-dust/mist) 1.62 mg/l ATEmix (inhalation-vapor) 10.00 ATEmix

# 12. Ecological Information

#### **Ecotoxicity**

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Methyl alcohol		96h LC50: = 28200 mg/L	EC50 = 39000 mg/L	
67-56-1		(Pimephales promelas) 96h	25 min	
		LC50: > 100 mg/L	EC50 = 40000 mg/L	
		(Pimephales promelas) 96h	15 min	
		LC50: 19500 - 20700 mg/L	EC50 = 43000 mg/L	
		(Oncorhynchus mykiss) 96h	5 min	
		LC50: 18 - 20 mL/L		
		(Oncorhynchus mykiss) 96h		
		LC50: 13500 - 17600 mg/L		
		(Lepomis macrochirus)		

#### **Persistence and Degradability**

No information available.

#### **Bioaccumulation**

Chemical Name	Log Pow
Methyl alcohol	-0.77
67-56-1	

#### Other adverse effects

No information available.



Issuing Date: 1-Jun-2008 Revision Date: 27-Mar-2015 SDS Number: 9118

### 13. Disposal Considerations

## Waste treatment methods

Disposal methods This material, as supplied, is a hazardous waste according to federal

regulations (40 CFR 261).

**Contaminated Packaging** Dispose of contents/containers in accordance with local regulations.

US EPA Waste Number D001 U154

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Methyl alcohol		Included in waste stream:		U154
67-56-1		F039		

California Hazardous Waste

Codes

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste
Methyl alcohol	Toxic
67-56-1	Ignitable

# 14. Transport Information

DOT

Proper Shipping Name CONSUMER COMMODITY

Hazard Class ORM-D

**Description** CONSUMER COMMODITY, ORM-D

212

Emergency Response 128

**Guide Number** 

**TDG** 

**UN-No.** UN1993

Proper Shipping Name FLAMMABLE LIQUID, N.O.S.

Hazard Class 3
Packing Group III

Description UN1993, FLAMMABLE LIQUID, N.O.S.(METHYL ALCOHOL ), 3, III

MEX

**UN-No.** UN1993

Proper Shipping Name FLAMMABLE LIQUID, N.O.S.

Hazard Class 3
Packing Group III

**Description** UN1993 FLAMMABLE LIQUID, N.O.S.(METHYL ALCOHOL ), 3, III



Issuing Date: 1-Jun-2008 Revision Date: 27-Mar-2015 SDS Number: 9118

ICAO UN-No.

UN1993

**Proper Shipping Name** 

FLAMMABLE LIQUID, N.O.S.

Hazard Class

3 III

Packing Group Description

UN1993, FLAMMABLE LIQUID, N.O.S.(METHYL ALCOHOL), 3, III

<u>IATA</u>

UN-No.

UN1993

**Proper Shipping Name** 

FLAMMABLE LIQUID, N.O.S.

Hazard Class

III

Packing Group Description

UN1993, FLAMMABLE LIQUID, N.O.S.(METHYL ALCOHOL), 3, III

IMDG/IMO

UN-No.

UN1993

**Proper Shipping Name** 

FLAMMABLE LIQUID, N.O.S.

Hazard Class

3 III

Packing Group EmS-No.

F-E, S-E

Description

UN1993, FLAMMABLE LIQUID, N.O.S.(METHYL ALCOHOL), 3, III, FP 34C

RID

UN-No.

UN1993

Ш

F1

**Proper Shipping Name** 

FLAMMABLE LIQUID, N.O.S.

Hazard Class
Packing Group

Classification code

Description

UN1993 FLAMMABLE LIQUID, N.O.S.(METHYL ALCOHOL), 3, III

<u>ADR</u>

UN-No.

UN1993

Ш

F1

**Proper Shipping Name** 

FLAMMABLE LIQUID, N.O.S.

Hazard Class
Packing Group
Classification code

Description

UN1993 FLAMMABLE LIQUID, N.O.S.(METHYL ALCOHOL ), 3, III

<u>ADN</u>

UN-No.

UN1993

**Proper Shipping Name** 

FLAMMABLE LIQUID, N.O.S.

Hazard Class 3
Packing Group III
Classification code F1

Special Provisions

274, 601, 640E

Description

UN1993 FLAMMABLE LIQUID, N.O.S.(METHYL ALCOHOL), 3, III

Hazard Labels

3



Issuing Date: 1-Jun-2008 Revision Date: 27-Mar-2015 SDS Number: 9118

Limited Quantity Ventilation 5 L VE01

# 15. Regulatory Information

# International Inventories

TSCA

Complies

DSL

All components are listed either on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

## US Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Methyl alcohol - 67-56-1	67-56-1	30 - 40	1.0

#### SARA 311/312 Hazard

<u>Categories</u>

Acute Health Hazard Yes
Chronic Health Hazard Yes
Fire Hazard Yes
Sudden release of pressure hazard No
Reactive Hazard No

#### **CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Methyl alcohol 67-56-1	5000 lb		RQ= 2270 kg final RQ RQ= 5000 lb final RQ



Issuing Date: 1-Jun-2008 Revision Date: 27-Mar-2015 SDS Number: 9118

#### **US State Regulations**

# **California Proposition 65**

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
Methyl alcohol - 67-56-1	Developmental

#### **US State Right-to-know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsyl vania	Rhode Island	Illinois
Methyl alcohol 67-56-1	Х	Х	Х	Х	Х

# International Regulations

#### Mexico

**National occupational exposure limits** 

Component	Carcinogen Status	Exposure Limits
Methyl alcohol		Mexico: TWA= 200 ppm
67-56-1 ( 15 - 40 )		Mexico: TWA= 260 mg/m <sup>3</sup>
		Mexico: STEL= 250 ppm
		Mexico: STEL= 310 mg/m <sup>3</sup>

Mexico - Occupational Exposure Limits - Carcinogens

#### Canada

# **WHMIS Hazard Class**

B2 - Flammable liquid D2A - Very toxic materials D2B - Toxic materials



#### 16. Other Information



Issuing Date: 1-Jun-2008 Revision Date: 27-Mar-2015 SDS Number: 9118

NFPA Health Hazards 3 Flammability 3 Instability 0 Physical and Chemical

HMIS Health Hazards 3 \* Flammability 3 Physical Hazard 0 Personal Protection X

Prepared By: Randy Boitz

#### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet** 

# **SAFETY DATA SHEET**



SynPower™ Synthetic SAE 75W-140 Limited Slip Gear Oil

Version: 2.0 Revision Date: 03/28/2023 Print Date: 04/10/2023

# **SECTION 1. IDENTIFICATION**

Product name : SynPower™ Synthetic SAE 75W-140 Limited Slip Gear Oil

Product code : VV982

Manufacturer or supplier's details

Company name of supplier : Valvoline LLC

Address : 100 Valvoline Way

Lexington, KY 40509

United States of America (USA)

Telephone : 1-800-TEAMVAL (1-800-832-6825)

E-mail address : SDS@valvoline.com

Emergency telephone

number

: +1-800-VALVOLINE (+1-800-825-8654)

Recommended use of the chemical and restrictions on use

Recommended use : Engine, gear & lubricating oil.

# **SECTION 2. HAZARDS IDENTIFICATION**

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Eye irritation : Category 2A

Skin sensitisation : Category 1

**GHS** label elements

Hazard pictograms :

Signal word : Warning

# **SAFETY DATA SHEET**



SynPower™ Synthetic SAE 75W-140 Limited Slip Gear Oil

Version: 2.0 Revision Date: 03/28/2023 Print Date: 04/10/2023

Hazard statements : H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

Precautionary statements : Prevention:

P261 Avoid breathing mist or vapours. P264 Wash skin thoroughly after handling.

P272 Contaminated work clothing must not be allowed out of

the workplace.

P280 Wear protective gloves/ eye protection/ face protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

P333 + P313 If skin irritation or rash occurs: Get medical advice/

attention.

P337 + P313 If eye irritation persists: Get medical advice/

attention.

P363 Wash contaminated clothing before reuse.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

#### Other hazards

None known.

# **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

### Components

Chemical name	CAS-No.	Concentration (% w/w)
HYDROTREATED LIGHT	64742-55-8	>= 15 - < 20
PARAFFINIC DISTILLATE		
DI-TERT-BUTYL POLYSULFIDE	68937-96-2	>= 1.5 - < 5
Mineral Oil	Not Assigned	>= 1.5 - < 5
DISTILLATES (PETROLEUM),	64742-54-7	>= 1.5 - < 5
HYDROTREATED HEAVY		
PARAFFINIC		
Reaction products of 4-methyl-2-	Not Assigned	>= 1.5 - < 5
pentanol and diphosphorus		
pentasulfide, propoxylated, esterified		
with diphosphorus pentaoxide, and		
salted by amines, C12-14-tert-alkyl		

# Valvoline...

# SAFETY DATA SHEET

SynPower™ Synthetic SAE 75W-140 Limited Slip Gear Oil

Version: 2.0 Revision Date: 03/28/2023 Print Date: 04/10/2023

Actual concentration is withheld as a trade secret

#### **SECTION 4. FIRST AID MEASURES**

General advice : Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact : If on skin, rinse well with water.

If on clothes, remove clothes.

In case of eye contact : Immediately flush eye(s) with plenty of water.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Most important symptoms and effects, both acute and

delayed

No symptoms known or expected. May cause an allergic skin reaction.

Causes serious eye irritation.

Notes to physician : Treat symptomatically.

No hazards which require special first aid measures.

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Alcohol-resistant foam

Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

High volume water jet

Specific hazards during

firefighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion : carbon dioxide and carbon monoxide

# Valvoline,

## SAFETY DATA SHEET

SynPower™ Synthetic SAE 75W-140 Limited Slip Gear Oil

Version: 2.0 Revision Date: 03/28/2023 Print Date: 04/10/2023

products

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored

separately in closed containments.

Use a water spray to cool fully closed containers.

Special protective equipment:

for firefighters

Wear self-contained breathing apparatus for firefighting if

necessary.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures Use personal protective equipment.

Ensure adequate ventilation.
Remove all sources of ignition.
Evacuate personnel to safe areas.

Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental precautions

Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to

local / national regulations (see section 13).

## **SECTION 7. HANDLING AND STORAGE**

Advice on protection against :

fire and explosion

Do not spray on a naked flame or any incandescent material.

Take necessary action to avoid static electricity discharge

(which might cause ignition of organic vapours).

Use only explosion-proof equipment.

Keep away from open flames, hot surfaces and sources of

ignition.

Advice on safe handling : Avoid formation of aerosol.

Do not breathe vapours/dust.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

# SAFETY DATA SHEET



SynPower™ Synthetic SAE 75W-140 Limited Slip Gear Oil

Version: 2.0 Revision Date: 03/28/2023 Print Date: 04/10/2023

application area.

Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations.

Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

used.

Conditions for safe storage No smoking.

Keep container tightly closed in a dry and well-ventilated

place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage. Observe label precautions.

Electrical installations / working materials must comply with

the technological safety standards.

Further information on storage stability

: No decomposition if stored and applied as directed.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
HYDROTREATED LIGHT PARAFFINIC DISTILLATE	64742-55-8	TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Inhalable particulate matter)	5 mg/m3	ACGIH
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC	64742-54-7	TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Inhalable particulate matter)	5 mg/m3	ACGIH

#### Personal protective equipment

Respiratory protection Respiratory protection is not required under normal

conditions of use.

# Valvoline,

## SAFETY DATA SHEET

SynPower™ Synthetic SAE 75W-140 Limited Slip Gear Oil

Version: 2.0 Revision Date: 03/28/2023 Print Date: 04/10/2023

No personal respiratory protective equipment normally

required.

Hand protection

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Skin and body protection : Impervious clothing

Choose body protection according to the amount and

concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid

Colour : amber

Odour : oily

Odour Threshold : No data available

pH : Not applicable

Melting point/freezing point : No data available

Boiling point/boiling range : No data available

Flash point : 288.5 °F / 142.5 °C

Method: Pensky-Martens closed cup

Evaporation rate : No data available

Flammability (solid, gas) : No data available

# Valvoline,

## SAFETY DATA SHEET

SynPower™ Synthetic SAE 75W-140 Limited Slip Gear Oil

Version: 2.0 Revision Date: 03/28/2023 Print Date: 04/10/2023

Self-ignition : No data available

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapour pressure : No data available

Relative vapour density : > 1

AIR=1

Relative density : No data available

Density : ca. 0.8603 g/cm3 (60.1 °F / 15.6 °C)

Solubility(ies)

Water solubility : insoluble

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : 171 mm2/s (104 °F / 40 °C)

Oxidizing properties : No data available

# **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous

reactions

: No decomposition if stored and applied as directed.

Vapours may form explosive mixture with air.

Hazardous decomposition

products

: No hazardous decomposition products are known.

# SAFETY DATA SHEET



SynPower™ Synthetic SAE 75W-140 Limited Slip Gear Oil

Version: 2.0 Revision Date: 03/28/2023 Print Date: 04/10/2023

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

#### **Acute toxicity**

Not classified based on available information.

**Product:** 

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg

Method: Calculation method

**Components:** 

**DI-TERT-BUTYL POLYSULFIDE:** 

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

Method: OECD Test Guideline 401

Assessment: The substance or mixture has no acute oral

oxicity

Remarks: No mortality observed at this dose.

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal

toxicity

Remarks: No mortality observed at this dose.

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:

Acute oral toxicity : LD50 (Rat): > 15 g/kg

Acute dermal toxicity : LD50 (Rabbit): > 5 g/kg

Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified

with diphosphorus pentaoxide, and salted by amines, C12-14-tert-alkyl:

Acute oral toxicity : LD50 (Rat): ca. 2,000 mg/kg

Method: OECD Test Guideline 401

Assessment: The component/mixture is moderately toxic after

single ingestion.

Skin corrosion/irritation

Not classified based on available information.

Product:

Remarks : May cause skin irritation and/or dermatitis.

**Components:** 

**DI-TERT-BUTYL POLYSULFIDE:** 

Result : Mild skin irritation

# Valvoline...

## SAFETY DATA SHEET

SynPower™ Synthetic SAE 75W-140 Limited Slip Gear Oil

Version: 2.0 Revision Date: 03/28/2023 Print Date: 04/10/2023

# DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:

Assessment : Slight, transient irritation Result : Slight, transient irritation

## Serious eye damage/eye irritation

Causes serious eye irritation.

**Product:** 

Remarks : May cause irreversible eye damage.

**Components:** 

**DI-TERT-BUTYL POLYSULFIDE:** 

Result : Slight, transient irritation

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:

Result : No eye irritation
Assessment : No eye irritation

Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified

with diphosphorus pentaoxide, and salted by amines, C12-14-tert-alkyl:

Result : Corrosive

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

**Product:** 

Remarks : Causes sensitisation.

Components:

**DI-TERT-BUTYL POLYSULFIDE:** 

Test Type : Maximisation Test Species : Guinea pig

Assessment : The product is a skin sensitiser, sub-category 1B.

Method : OECD Test Guideline 406

# Valvoline...

#### SAFETY DATA SHEET

SynPower™ Synthetic SAE 75W-140 Limited Slip Gear Oil

Version: 2.0 Revision Date: 03/28/2023 Print Date: 04/10/2023

Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified

with diphosphorus pentaoxide, and salted by amines, C12-14-tert-alkyl:

Assessment : The product is a skin sensitiser, sub-category 1B.

# Germ cell mutagenicity

Not classified based on available information.

#### **Components:**

#### **DI-TERT-BUTYL POLYSULFIDE:**

Genotoxicity in vitro : Test Type: in vitro assay

Result: Positive results were obtained in some in vitro tests.

Genotoxicity in vivo : Test Type: Micronucleus test

Species: Mouse

Cell type: Bone marrow

Method: OECD Test Guideline 474

Result: negative

#### Carcinogenicity

Not classified based on available information.

### Components:

#### **HYDROTREATED LIGHT PARAFFINIC DISTILLATE:**

Carcinogenicity - : Classified based on DMSO extract content < 3% (Regulation

Assessment (EC) 1272/2008, Annex VI, Part 3, Note L)

# DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:

Carcinogenicity - : Classified based on DMSO extract content < 3% (Regulation

Assessment (EC) 1272/2008, Annex VI, Part 3, Note L)

IARC No component of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA**No component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

NTP No component of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

#### Reproductive toxicity

Not classified based on available information.

# STOT - single exposure

Not classified based on available information.

# **SAFETY DATA SHEET**



SynPower™ Synthetic SAE 75W-140 Limited Slip Gear Oil

Version: 2.0 Revision Date: 03/28/2023 Print Date: 04/10/2023

# STOT - repeated exposure

Not classified based on available information.

#### **Aspiration toxicity**

Not classified based on available information.

#### Components:

#### Mineral Oil:

May be fatal if swallowed and enters airways.

# DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:

No aspiration toxicity classification

#### **Further information**

**Product:** 

Remarks : Solvents may degrease the skin.

#### **SECTION 12. ECOLOGICAL INFORMATION**

# **Ecotoxicity**

#### **Product:**

## **Ecotoxicology Assessment**

Acute aquatic toxicity : Not classified based on available information.

Chronic aquatic toxicity : May cause long lasting harmful effects to aquatic life.

#### **Components:**

# HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

#### **Ecotoxicology Assessment**

Acute aquatic toxicity : Not classified based on available information.

Chronic aquatic toxicity : Not classified based on available information.

#### **DI-TERT-BUTYL POLYSULFIDE:**

#### **Ecotoxicology Assessment**

Acute aquatic toxicity : Harmful to aquatic life.

Acute aquatic toxicity Category 3; Harmful to aquatic life.

# Valvoline.

# SAFETY DATA SHEET

SynPower™ Synthetic SAE 75W-140 Limited Slip Gear Oil

Version: 2.0 Revision Date: 03/28/2023 Print Date: 04/10/2023

Chronic aquatic toxicity Harmful to aquatic life with long lasting effects.

Chronic aquatic toxicity Category 3; Harmful to aquatic life

with long lasting effects.

Mineral Oil:

**Ecotoxicology Assessment** 

Acute aquatic toxicity Not classified based on available information.

Not classified based on available information. Chronic aquatic toxicity

**DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:** 

: LL50 (Fish): > 100 mg/l Toxicity to fish

Exposure time: 96 h

aquatic invertebrates

Toxicity to daphnia and other : EL50 (Aquatic invertebrates): > 10,000 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

EL50 (Algae, algal mat (Algae)): > 100 mg/l

Exposure time: 72 h

Toxicity to fish (Chronic

toxicity)

: NOEC (Fish): 10 mg/l

aquatic invertebrates

(Chronic toxicity)

Toxicity to daphnia and other : NOEC (Aquatic invertebrates): 10 mg/l

**Ecotoxicology Assessment** 

Acute aquatic toxicity Not classified based on available information.

Not classified based on available information. Chronic aquatic toxicity

Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified

with diphosphorus pentaoxide, and salted by amines, C12-14-tert-alkyl:

Toxicity to fish LL50 (Oncorhynchus mykiss (rainbow trout)): ca. 24 mg/l

> Exposure time: 96 h Test Type: static test Test substance: WAF

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EL50 (Daphnia magna (Water flea)): ca. 91.4 mg/l

Exposure time: 48 h Test Type: static test Test substance: WAF

Method: OECD Test Guideline 202

# Valvoline...

## SAFETY DATA SHEET

SynPower™ Synthetic SAE 75W-140 Limited Slip Gear Oil

Version: 2.0 Revision Date: 03/28/2023 Print Date: 04/10/2023

Toxicity to algae/aquatic

plants

ErC50 (Pseudokirchneriella subcapitata (green algae)): 15

mg/l

End point: Growth inhibition Exposure time: 96 h Test Type: static test

Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 3.3

mg/l

End point: Growth inhibition Exposure time: 96 h Test Type: static test

Method: OECD Test Guideline 201

Toxicity to daphnia and other :

aquatic invertebrates (Chronic toxicity)

NOEC (Daphnia magna (Water flea)): 0.12 mg/l

End point: Reproduction Test

Exposure time: 21 d
Test Type: semi-static test
Test substance: WAF

Method: OECD Test Guideline 211

**Ecotoxicology Assessment** 

Acute aquatic toxicity : Toxic to aquatic life.

Acute aquatic toxicity Category 2; Toxic to aquatic life.

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

Chronic aquatic toxicity Category 2; Toxic to aquatic life with

long lasting effects.

# Persistence and degradability

#### **Components:**

#### **DI-TERT-BUTYL POLYSULFIDE:**

Biodegradability : Result: Not readily biodegradable.

Biodegradation: 13 % Exposure time: 28 d

Method: OECD Test Guideline 301B

Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified

with diphosphorus pentaoxide, and salted by amines, C12-14-tert-alkyl: Biodegradability : Result: Not readily biodegradable.

: Result: Not readily biodegradable. Biodegradation: 7.4 %

Biodegradation: 7.4 S Exposure time: 28 d

Method: Modified Sturm Test

# Valvoline,

# **SAFETY DATA SHEET**

SynPower™ Synthetic SAE 75W-140 Limited Slip Gear Oil

Version: 2.0 Revision Date: 03/28/2023 Print Date: 04/10/2023

# **Bioaccumulative potential**

#### Components:

#### DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:

Partition coefficient: n-

octanol/water

: log Pow: Expected > 7

Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14-tert-alkyl:

Partition coefficient: n-

octanol/water

: Remarks: No data available

# Mobility in soil

No data available

#### Other adverse effects

#### **Product:**

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82

Protection of Stratospheric Ozone - CAA Section 602 Class I

Substances

Remarks: This product neither contains, nor was

manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A +

B).

Additional ecological

information

An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

May cause long lasting harmful effects to aquatic life.

## **SECTION 13. DISPOSAL CONSIDERATIONS**

#### **Disposal methods**

Waste from residues : The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

Do not burn, or use a cutting torch on, the empty drum.

# SAFETY DATA SHEET



SynPower™ Synthetic SAE 75W-140 Limited Slip Gear Oil

Version: 2.0 Revision Date: 03/28/2023 Print Date: 04/10/2023

#### **SECTION 14. TRANSPORT INFORMATION**

#### International Regulations

#### **UNRTDG**

Not regulated as a dangerous good

#### IATA-DGR

Not regulated as a dangerous good

#### **IMDG-Code**

Not regulated as a dangerous good

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### **National Regulations**

#### **49 CFR**

Not regulated as a dangerous good

#### Special precautions for user

Not applicable

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

#### **SECTION 15. REGULATORY INFORMATION**

#### **CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
METHANOL	67-56-1	100	100 (F003)
ETHYL BENZENE	100-41-4	100	100 (F003)
METHYL ISOBUTYL KETONE	108-10-1	100	100 (F003)

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

#### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Respiratory or skin sensitisation

Serious eye damage or eye irritation

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

# SAFETY DATA SHEET



SynPower™ Synthetic SAE 75W-140 Limited Slip Gear Oil

Version: 2.0 Revision Date: 03/28/2023 Print Date: 04/10/2023

#### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

#### **Clean Water Act**

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

ETHYL BENZENE 100-41-4 >= 0 - < 0.1 % NAPHTHALENE 91-20-3 >= 0 - < 0.1 %

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

ETHYL BENZENE 100-41-4 >= 0 - < 0.1 % NAPHTHALENE 91-20-3 >= 0 - < 0.1 %

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

#### **US State Regulations**

### Massachusetts Right To Know

HYDROTREATED LIGHT PARAFFINIC DISTILLATE 64742-55-8

# Pennsylvania Right To Know

PROPYLENE/ETHYLENE COPOLYMER	9010-79-1
1-DODECENE TRIMER, HYDROGENATED	151006-62-1
HYDROTREATED LIGHT PARAFFINIC DISTILLATE	64742-55-8
1-DODECENE, HOMOPOLYMER, HYDROGENATED	151006-63-2
DIALKYL CARBOXYLATE	Not Assigned
DI-TERT-BUTYL POLYSULFIDE	68937-96-2
Mineral Oil	Not Assigned
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY	64742-54-7
PARAFFINIC	

# Maine Chemicals of High Concern

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil- 72623-86-0 based

ETHYL BENZENE 100-41-4
NAPHTHALENE 91-20-3

#### **Vermont Chemicals of High Concern**

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil- 72623-86-0

based

ETHYL BENZENE 100-41-4 NAPHTHALENE 91-20-3

#### **Washington Chemicals of High Concern**

# Valvoline...

### SAFETY DATA SHEET

SynPower™ Synthetic SAE 75W-140 Limited Slip Gear Oil

Version: 2.0 Revision Date: 03/28/2023 Print Date: 04/10/2023

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil- 72623-86-0

based

ETHYL BENZENE 100-41-4 NAPHTHALENE 91-20-3

**California Permissible Exposure Limits for Chemical Contaminants** 

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY 64742-54-7

**PARAFFINIC** 

The components of this product are reported in the following inventories:

TCSI : On the inventory, or in compliance with the inventory

TSCA : All substances listed as active on the TSCA inventory

AIIC : Not in compliance with the inventory

DSL : All components of this product are on the Canadian DSL

ENCS : On the inventory, or in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

NZIoC : Not in compliance with the inventory

### **TSCA list**

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

### **Inventories**

AIIC (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TECI (Thailand), TSCA (USA)

### **SECTION 16. OTHER INFORMATION**

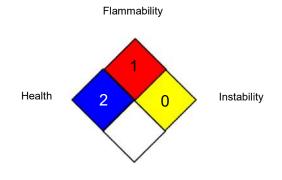
### **Further information**



SynPower™ Synthetic SAE 75W-140 Limited Slip Gear Oil

Version: 2.0 Revision Date: 03/28/2023 Print Date: 04/10/2023

### NFPA 704:



Special hazard

### HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1

Limits for Air Contaminants

ACGIH / TWA : 8-hour, time-weighted average OSHA Z-1 / TWA : 8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL -Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS -Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS -Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 -Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA -National Fire Protection Association: NO(A)EC - No Observed (Adverse) Effect Concentration: NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate;



SynPower™ Synthetic SAE 75W-140 Limited Slip Gear Oil

Version: 2.0 Revision Date: 03/28/2023 Print Date: 04/10/2023

NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date : 03/28/2023

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / EN

Internal information: R0388288

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name : Coolant VCS ready mixed mix 40/60

Product code : 22567314

Product description : Not available.

Product type : Liquid.

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses

Coolant and antifreeze. Uses advised against

Not applicable.

### 1.3 Details of the supplier of the safety data sheet

AB Volvo Penta SE-405 08 Göteborg

Sweden

e-mail address of person responsible for this SDS

: sds@volvo.com

### 1.4 Emergency telephone number

### National advisory body/Poison Centre

**Telephone number**: Call a POISON CENTER or doctor.

### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

**Product definition**: Mixture

### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Acute Tox. 4, H302 Repr. 1B, H360D

STOT RE 2, H373 (kidneys) (oral)

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

Hazard pictograms





Signal word : Danger

Hazard statements : Harmful if swallowed.

May damage the unborn child.

May cause damage to organs through prolonged or repeated exposure. (kidneys) (oral)

### **Precautionary statements**

Date of issue/Date of revision :10/24/2023 1/12

### **SECTION 2: Hazards identification**

Prevention

: If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use. Wash thoroughly after handling. Do not

eat, drink or smoke when using this product.

Response

: IF SWALLOWED: Call a POISON CENTER or physician. Rinse mouth.

Storage : Not applicable
Disposal : Not applicable.

Supplemental label

elements

.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Restricted to professional users.

### 2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII : This mixture does not contain any substances that are assessed to be a PBT or a

Other hazards which do not result in classification

: None known.

### **SECTION 3: Composition/information on ingredients**

### 3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
ethanediol	REACH #: 01-2119456816-28 EC: 203-473-3 CAS: 107-21-1	30 - 60	Acute Tox. 4, H302 STOT RE 2, H373 (kidneys) (oral)	ATE [Oral] = 500 mg/kg	[1] [2]
Hexanoic acid, 2-ethyl-, sodium salt	EC: 243-283-8 CAS: 19766-89-3	≤3	Repr. 1B, H360D	_	[1]
Aversive agent	-	<100 ppm	Acute Tox. 4, H302 Acute Tox. 4, H332 Aquatic Chronic 3, H412	ATE [Oral] = 500 mg/kg ATE [Inhalation (vapours)] = 11 mg/	[3]
			See Section 16 for the full text of the H statements declared above.		

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Additional disclosure due to company policy

Occupational exposure limits, if available, are listed in Section 8.

Date of issue/Date of revision : 10/24/2023 2/12

### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

Eye contact : In case of contact with eyes, rinse immediately with plenty of water. Get medical

attention if symptoms occur. Continue to rinse for at least 10 minutes.

Inhalation : If inhaled, remove to fresh air. Get medical attention if symptoms occur.

Skin contact : Wash contaminated skin with soap and water. Get medical attention.

: Do not induce vomiting unless directed to do so by medical personnel. If affected Ingestion person is conscious, give plenty of water to drink. Wash out mouth with water.

(Coolant. Contains ethylene glycol) Get medical attention immediately.

**Protection of first-aiders** No action shall be taken involving any personal risk or without suitable training.

Refer to protective measures listed in sections 7 and 8.

### 4.2 Most important symptoms and effects, both acute and delayed

### Over-exposure signs/symptoms

Eye contact : May cause slight transient irritation. (redness)

Inhalation : May cause slight transient irritation.

Skin contact : Prolonged or repeated contact can defat the skin and lead to irritation, cracking

and/or dermatitis.

Ingestion : Exposure can cause stomach pains, vomiting and diarrhoea.

### 4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : Treat symptomatically.

Specific treatments : Antidote information: Ethanol

### SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing

media

: Recommended:, CO<sub>2</sub>, powders, alcohol-resistant foam

Unsuitable extinguishing

media

: Do not use water jet.

### 5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

: In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous combustion

products

: Decomposition products may include the following materials:

metal oxide/oxides carbon oxides

#### 5.3 Advice for firefighters

Special protective actions

for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

Date of issue/Date of revision : 10/24/2023 3/12

### **SECTION 6: Accidental release measures**

### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Refer to protective measures listed in sections 7 and 8.

For emergency responders

: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

# 6.2 Environmental precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### 6.3 Methods and material for containment and cleaning up

Small spill

: Stop leak if without risk. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Large spill

: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

# 6.4 Reference to other sections

: See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

### **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 7.1 Precautions for safe handling

**Protective measures** 

: Put on appropriate personal protective equipment (see Section 8). Do not breathe vapour or mist. Empty containers retain product residue and can be hazardous. Do not reuse container. Avoid contact with eyes, skin and clothing. Do not ingest. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

Advice on general occupational hygiene

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Wash contaminated clothing before reuse. See also Section 8 for additional information on hygiene measures.

### 7.2 Conditions for safe storage, including any incompatibilities

Do not store in unlabelled containers. Keep container tightly closed. Keep container in a cool, well-ventilated area. Store in accordance with local regulations.

### 7.3 Specific end use(s)

Recommendations
Industrial sector specific

: Coolant and antifreeze.

solutions

: Not available.

Date of issue/Date of revision :10/24/2023 4/12

### **SECTION 8: Exposure controls/personal protection**

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

### 8.1 Control parameters

### Occupational exposure limits

Product/ingredient name	Exposure limit values
	EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list of indicative occupational exposure limit values  TWA: 20 ppm 8 hours.  TWA: 52 mg/m³ 8 hours.  STEL: 40 ppm 15 minutes.  STEL: 104 mg/m³ 15 minutes.

### **Biological exposure indices**

No exposure indices known.

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

### **DNELs/DMELs**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
ethanediol	DNEL	Long term Dermal	106 mg/ kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	35 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	53 mg/kg bw/day	General population [Human via the environment]	Systemic
	DNEL	Short term Inhalation	7 mg/m <sup>3</sup>	General population [Human via the environment]	Systemic

### **PNECs**

Product/ingredient name	Compartment Detail	Value	Method Detail
ethanediol	Fresh water	10 mg/l	-
	Marine water	1 mg/l	-
	Sewage Treatment	199.5 mg/l	-
	Plant		
	Fresh water sediment	37 mg/kg dwt	-
	Marine water sediment	3.7 mg/kg dwt	-
	Soil	1.53 mg/kg dwt	-

### 8.2 Exposure controls

Appropriate engineering controls

: Use only with adequate ventilation. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators.

### **Individual protection measures**

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Date of issue/Date of revision :10/24/2023 5/12

### **SECTION 8: Exposure controls/personal protection**

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

**Skin protection** 

Hand protection

: For prolonged or repeated handling, use gloves : nitrile rubber,

butyl rubber, neoprene rubber. EN374

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist

before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Provide adequate ventilation.

**Environmental exposure** 

: Do not allow to enter drains or watercourses.

controls

### **SECTION 9: Physical and chemical properties**

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### 9.1 Information on basic physical and chemical properties

### **Appearance**

Physical state : Liquid. Colour : Yellow. Odour : Slight

: Not available. Odour threshold Melting point/freezing point : Not available. : 109°C (228.2°F) Initial boiling point and boiling

range

Flammability (solid, gas) : Not available. Upper/lower flammability or : Not available.

explosive limits

Flash point : Not applicable. : Not available. **Auto-ignition temperature Decomposition temperature** : Not available.

: 8.6 pН

Viscosity Not available. Pour point : Not available.

Solubility(ies)

Media	Result
cold water	Easily soluble
hot water	Easily soluble

Partition coefficient: n-octanol/ : Not applicable.

water

Vapour pressure

	Vapour Pressure at 20°C			Vapour pressure at 50		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
Not available.						

Relative density : Not available.

: 1.056 g/cm<sup>3</sup> [20°C (68°F)] Density

Vapour density : >1 [Air = 1]

Date of issue/Date of revision : 10/24/2023 6/12

### **SECTION 9: Physical and chemical properties**

**Explosive properties** : Not available. **Oxidising properties** : Not available.

**Particle characteristics** 

Median particle size : Not applicable.

### 9.2.1 Information with regard to physical hazard classes

9.2.2 Other safety characteristics

Miscible with water : Not available. **Evaporation rate** : Not available.

### **SECTION 10: Stability and reactivity**

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : Stable under recommended storage and handling conditions (see Section 7).

reactions

10.3 Possibility of hazardous : Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : No specific data.

10.5 Incompatible materials : Reactive or incompatible with the following materials:

acids

oxidising materials

10.6 Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

### **SECTION 11: Toxicological information**

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
	Harmful if swallowed. No applicable toxicity data	-	-	-

Conclusion/Summary

: Harmful if swallowed.

### **Acute toxicity estimates**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
ethanediol	500	N/A	N/A	N/A	N/A

### **Irritation/Corrosion**

Conclusion/Summary

Skin : Based on available data, the classification criteria are not met. Eyes : Based on available data, the classification criteria are not met. Respiratory : Based on available data, the classification criteria are not met.

**Sensitisation** 

Conclusion/Summary

Skin : Based on available data, the classification criteria are not met. Respiratory : Based on available data, the classification criteria are not met.

**Mutagenicity** 

Conclusion/Summary : Based on available data, the classification criteria are not met.

Date of issue/Date of revision : 10/24/2023 7/12

### **SECTION 11: Toxicological information**

### **Carcinogenicity**

Conclusion/Summary

: Based on available data, the classification criteria are not met.

### Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Developmental toxin	Species	Dose	Exposure
Hexanoic acid, 2-ethyl-, sodium salt	-	-	Positive	Rat	Oral	-

Conclusion/Summary

: May damage the unborn child.

### **Teratogenicity**

Product/ingredient name	Result	Species	Dose	Exposure
Hexanoic acid, 2-ethyl-, sodium salt	Positive	-	-	-

Conclusion/Summary

: May damage the unborn child.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
ethanediol	Category 2	oral	kidneys

### **Aspiration hazard**

Not available.

Information on likely routes

of exposure

: Not available.

### Potential acute health effects

**Eye contact** : May cause slight transient irritation.

Inhalation : This product is not likely to volatilise rapidly into the air because of its low vapour

pressure.

**Skin contact**: Defatting to the skin.

**Ingestion**: Harmful if swallowed. Risk of intoxication.

### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact**: May cause slight transient irritation. (redness)

**Inhalation** : May cause slight transient irritation.

**Skin contact**: Prolonged or repeated contact can defat the skin and lead to irritation, cracking

and/or dermatitis.

**Ingestion** : Exposure can cause stomach pains, vomiting and diarrhoea.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

### **Short term exposure**

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

### Potential chronic health effects

Not available.

Date of issue/Date of revision :10/24/2023 8/12

### **SECTION 11: Toxicological information**

Conclusion/Summary

: Specific target organ toxicity (single exposure) - Based on available data, the

classification criteria are not met.

Specific target organ toxicity (repeated exposure) - May cause damage to organs

through prolonged or repeated exposure if swallowed. (kidneys)

Aspiration hazard - Based on available data, the classification criteria are not met.

**General**: May cause damage to organs through prolonged or repeated exposure if

swallowed.

Carcinogenicity : Not applicable.

Mutagenicity : Not applicable

**Reproductive toxicity**: May damage the unborn child.

#### 11.2 Information on other hazards

### 11.2.1 Endocrine disrupting properties

Not applicable.

#### 11.2.2 Other information

Not available.

### **SECTION 12: Ecological information**

Readily biodegradable

12.1 Toxicity

**Conclusion/Summary**: Based on available data, the classification criteria are not met.

### 12.2 Persistence and degradability

**Conclusion/Summary**: Not available.

### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
ethanediol	-1.36	10	Low

12.4 Mobility in soil

Soil/water partition

: Not available.

coefficient (Koc)

**Mobility**: Water-soluble liquid

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

### 12.6 Endocrine disrupting properties

Not applicable.

### 12.7 Other adverse effects

No known significant effects or critical hazards.

### **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 13.1 Waste treatment methods

### **Product**

Methods of disposal

: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Date of issue/Date of revision : 10/24/2023 9/12

### **SECTION 13: Disposal considerations**

Hazardous waste

: This product is listed as Hazardous by the EU Directive on hazardous waste. Dispose of according to all national and local applicable regulations.

### European waste catalogue (EWC)

Waste code	Waste designation
16 01 14*	antifreeze fluids containing hazardous substances

### **Packaging**

Methods of disposal

: Waste packaging should be recycled. Incineration or landfill should only be

considered when recycling is not feasible.

Special precautions

: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

### SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.

14.6 Special precautions for user

: **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Maritime transport in bulk according to IMO instruments

: Not available.

### **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

#### Annex XIV - List of substances subject to authorisation

### **Annex XIV**

None of the components are listed.

### Substances of very high concern

None of the components are listed.

# Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Product/ingredient name	%	Designation [Usage]
sodium 2-ethylhexanoate	≤3	30

Labelling

: Restricted to professional users.

### Other EU regulations

Date of issue/Date of revision :10/24/2023 10/12

### **SECTION 15: Regulatory information**

Industrial emissions

: Not listed

(integrated pollution prevention and control) -

Air

Industrial emissions

: Not listed

(integrated pollution prevention and control) -

Water

Explosive precursors

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

**Persistent Organic Pollutants** 

Not listed.

**Seveso Directive** 

This product is not controlled under the Seveso Directive.

**National regulations** 

**International regulations** 

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

**Montreal Protocol** 

Not listed.

**Stockholm Convention on Persistent Organic Pollutants** 

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals** 

Not listed.

15.2 Chemical safety

assessment

: No Chemical Safety Assessment has been carried out.

### **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

**Abbreviations and acronyms**: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Cute Tox. 4, H302	Expert judgment
Repr. 1B, H360D	Calculation method
STOT RE 2, H373 (kidneys) (oral)	Expert judgment

Date of issue/Date of revision : 10/24/2023 11/12

### **SECTION 16: Other information**

### Full text of abbreviated H statements

₩302 Harmful if swallowed.

H360D May damage the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

### Full text of classifications [CLP/GHS]

Acute Tox. 4 ACUTE TOXICITY - Category 4

Repr. 1B REPRODUCTIVE TOXICITY - Category 1B

STOT RE 2 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2

Date of issue/ Date of : 10/24/2023

revision

Version : 1

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

Date of issue/Date of revision :10/24/2023 12/12

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name : COOLANT VCS-2 READY MIXED MIX 40/60

Product code : 24383484

Product description : Coolant

Product type : Liquid.

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses

Coolant and antifreeze. Uses advised against

Not applicable.

### 1.3 Details of the supplier of the safety data sheet

AB Volvo Penta SE-405 08 Göteborg

Sweden

e-mail address of person

: sds@volvo.com

responsible for this SDS

### 1.4 Emergency telephone number

### National advisory body/Poison Centre

**Telephone number**: Call a POISON CENTER or doctor.

### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

**Product definition**: Mixture

### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Acute Tox. 4, H302

STOT RE 2, H373 (kidneys) (oral)

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

Hazard pictograms :





Signal word : Warning

**Hazard statements**: Harmful if swallowed.

May cause damage to organs through prolonged or repeated exposure. (kidneys)

(oral)

### **Precautionary statements**

Date of issue/Date of revision : 9/26/2023 1/12

### **SECTION 2: Hazards identification**

Prevention : If medical advice is nee

: If medical advice is needed, have product container or label at hand. Keep out of reach of children. Wash hands thoroughly after handling. Do not eat, drink or

smoke when using this product.

**Response**: IF SWALLOWED: Immediately call a POISON CENTER or doctor.

Storage : Store locked up.
Disposal : Not applicable.
Hazardous ingredients : ethanediol

Supplemental label

elements

:

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do not result in classification

: Not available.

### **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
ethanediol	REACH #: 01-2119456816-28 EC: 203-473-3 CAS: 107-21-1	30 - 60	Acute Tox. 4, H302 STOT RE 2, H373 (kidneys) (oral)	ATE [Oral] = 500 mg/kg	[1] [2]
BENZOIC ACID, SODIUM SALT	REACH #: 01-2119460683-35 EC: 208-534-8 CAS: 532-32-1	0.1 - <3	Eye Irrit. 2, H319	-	[1]
Aversive agent	-	ppm	Acute Tox. 4, H302 Acute Tox. 4, H332 Aquatic Chronic 3, H412	ATE [Oral] = 500 mg/kg ATE [Inhalation (vapours)] = 11 mg/	[3]
			See Section 16 for the full text of the H statements declared above.		

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3]Additional disclosure due to company policy

Date of issue/Date of revision : 9/26/2023 2/12

### **SECTION 3: Composition/information on ingredients**

Occupational exposure limits, if available, are listed in Section 8.

### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

**Eye contact**: In case of contact with eyes, rinse immediately with plenty of water. Get medical

attention if symptoms occur. Continue to rinse for at least 10 minutes.

**Inhalation** : If inhaled, remove to fresh air. Get medical attention if symptoms occur.

**Skin contact**: Wash contaminated skin with soap and water. Get medical attention.

**Ingestion** : Do not induce vomiting unless directed to do so by medical personnel. If affected

person is conscious, give plenty of water to drink. Wash out mouth with water. Get

medical attention immediately. (Coolant. Contains ethylene glycol)

**Protection of first-aiders**: No action shall be taken involving any personal risk or without suitable training.

Refer to protective measures listed in sections 7 and 8.

### 4.2 Most important symptoms and effects, both acute and delayed

### Over-exposure signs/symptoms

**Eye contact** : May cause slight transient irritation. (redness)

**Inhalation** : May cause slight transient irritation.

**Skin contact**: Prolonged or repeated contact can defat the skin and lead to irritation, cracking

and/or dermatitis.

**Ingestion**: Exposure can cause stomach pains, vomiting and diarrhoea.

### 4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : Treat symptomatically.

**Specific treatments**: Antidote information: Ethanol

### SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing

media

: Recommended:, CO<sub>2</sub>, powders, alcohol-resistant foam

Unsuitable extinguishing

media

: Do not use water jet.

#### 5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous combustion** 

products

: Decomposition products may include the following materials:

metal oxide/oxides carbon oxides

### 5.3 Advice for firefighters

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection

for chemical incidents.

Date of issue/Date of revision : 9/26/2023 3/12

### **SECTION 6: Accidental release measures**

### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Refer to protective measures listed in sections 7 and 8.

For emergency responders

: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

# 6.2 Environmental precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### 6.3 Methods and material for containment and cleaning up

Small spill

: Stop leak if without risk. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Large spill

: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

# 6.4 Reference to other sections

: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

### **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 7.1 Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8). Do not breathe vapour or mist. Empty containers retain product residue and can be hazardous. Do not reuse container. Avoid contact with eyes, skin and clothing. Do not ingest. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

Advice on general occupational hygiene

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Wash contaminated clothing before reuse. See also Section 8 for additional information on hygiene measures.

### 7.2 Conditions for safe storage, including any incompatibilities

Do not store in unlabelled containers. Keep container tightly closed. Keep container in a cool, well-ventilated area. Store in accordance with local regulations.

### 7.3 Specific end use(s)

Recommendations

: Coolant and antifreeze.

Industrial sector specific solutions

: Not available.

Date of issue/Date of revision : 9/26/2023 4/12

### **SECTION 8: Exposure controls/personal protection**

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

### 8.1 Control parameters

### Occupational exposure limits

Product/ingredient name	Exposure limit values		
ethanediol	EU OEL (Europe, 10/2019). Absorbed through skin. Notes: list of indicative occupational exposure limit values  TWA: 20 ppm 8 hours.  TWA: 52 mg/m³ 8 hours.  STEL: 40 ppm 15 minutes.  STEL: 104 mg/m³ 15 minutes.		

### **Biological exposure indices**

No exposure indices known.

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

### **DNELs/DMELs**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
ethanediol	DNEL	Long term Dermal	106 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	7 mg/m <sup>3</sup>	General population [Consumers]	Local
	DNEL	Long term Dermal	53 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Inhalation	35 mg/m <sup>3</sup>	Workers	Local
BENZOIC ACID, SODIUM SALT	DNEL	Long term Inhalation	0.06 mg/ m <sup>3</sup>	General population	Local
	DNEL	Long term Inhalation	0.1 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Inhalation	1.5 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	3 mg/m³	Workers	Systemic
	DNEL	Long term Oral	16.6 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	31.25 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	62.5 mg/ kg bw/day	Workers	Systemic

### **PNECs**

Product/ingredient name	Compartment Detail	Value	Method Detail
ethanediol	Fresh water	10 mg/l	-
	Marine water	1 mg/l	-
	Sewage Treatment	199.5 mg/l	-
	Plant		
	Fresh water sediment	37 mg/kg dwt	-
	Marine water sediment	3.7 mg/kg dwt	-
	Soil	1.53 mg/kg dwt	-
BENZOIC ACID, SODIUM SALT	Fresh water	0.13 mg/l	-
	Marine water	0.013 mg/l	-
	Secondary Poisoning	300 mg/kg	-
	Fresh water sediment	1.76 mg/kg	-

Date of issue/Date of revision : 9/26/2023 5/12

### **SECTION 8: Exposure controls/personal protection**

Marine water sediment Soil	0.176 mg/kg 0.276 mg/kg	-
Sewage Treatment Plant	10 mg/l	-

#### 8.2 Exposure controls

Appropriate engineering controls

: Use only with adequate ventilation. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators.

### **Individual protection measures**

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. Use eye protection according to EN 166, designed to protect against liquid splashes.

**Skin protection** 

Hand protection

: For prolonged or repeated handling, use gloves : > 8 hours (breakthrough time): nitrile rubber, butyl rubber, neoprene rubber, EN374. thickness >0.38mm

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Provide adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. full-face mask

**Environmental exposure** 

controls

: Do not allow to enter drains or watercourses.

### **SECTION 9: Physical and chemical properties**

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### 9.1 Information on basic physical and chemical properties

### **Appearance**

Physical state : Liquid. Colour : Orange. Odour : Mild.

: Not available. Odour threshold

Melting point/freezing point

: -25°C : 177°C (350.6°F)

Initial boiling point and boiling

range

Flammability (solid, gas) : Not available. : Not available.

Upper/lower flammability or explosive limits

Flash point

: Closed cup: Not applicable.

**Auto-ignition temperature Decomposition temperature**  : 398°C (748.4°F) : Not available.

pН : 8.4

**Viscosity** : Not available. : Not available. Pour point

Date of issue/Date of revision : 9/26/2023 6/12

### **SECTION 9: Physical and chemical properties**

### Solubility(ies)

Media	Result
cold water	Soluble
hot water	Soluble

Partition coefficient: n-octanol/ : Not applicable.

water

Vapour pressure

	Vapour Pressure at 20°C			Vapour pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
Not available.						

Relative density

: Not available.

Density

: 1.059 g/cm<sup>3</sup> [20°C (68°F)]

Vapour density **Explosive properties** Oxidising properties

: Not available. : Not available.

: Not available.

**Particle characteristics** 

Median particle size : Not applicable.

### 9.2.1 Information with regard to physical hazard classes

9.2.2 Other safety characteristics

Miscible with water : Yes.

**Evaporation rate** : Not available.

### **SECTION 10: Stability and reactivity**

10.1 Reactivity

: No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

: Stable under recommended storage and handling conditions (see Section 7).

reactions

10.3 Possibility of hazardous : Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid

: No specific data.

10.5 Incompatible materials

: Reactive or incompatible with the following materials:

strong acids oxidising materials

nitrates peroxides chlorates

10.6 Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced. Elevated temperature: Aldehydes, ketones

### **SECTION 11: Toxicological information**

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
	Harmful if swallowed. No applicable toxicity data	-	-	-

Date of issue/Date of revision : 9/26/2023 7/12

### **SECTION 11: Toxicological information**

Conclusion/Summary

: Harmful if swallowed.

**Acute toxicity estimates** 

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
ethanediol	500	N/A	N/A	N/A	N/A

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
BENZOIC ACID, SODIUM SALT	Eyes - Irritant	-	-	-	-

Conclusion/Summary

Skin : Based on available data, the classification criteria are not met. **Eyes** : Based on available data, the classification criteria are not met. Respiratory : Based on available data, the classification criteria are not met.

Sensitisation

Conclusion/Summary

Skin : Based on available data, the classification criteria are not met. Respiratory : Based on available data, the classification criteria are not met.

**Mutagenicity** 

Conclusion/Summary

**Carcinogenicity** 

: Based on available data, the classification criteria are not met.

Conclusion/Summary Reproductive toxicity

Conclusion/Summary

: Based on available data, the classification criteria are not met. : Based on available data, the classification criteria are not met.

**Teratogenicity** 

Conclusion/Summary : Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
ethanediol	Category 2	oral	kidneys

### **Aspiration hazard**

Not available.

Information on likely routes

of exposure

: Not available.

Potential acute health effects

Eve contact : May cause slight transient irritation.

Inhalation : This product is not likely to volatilise rapidly into the air because of its low vapour

pressure.

Skin contact : Defatting to the skin.

: Harmful if swallowed. Risk of intoxication. Ingestion

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : May cause slight transient irritation. (redness)

Inhalation : May cause slight transient irritation.

Date of issue/Date of revision : 9/26/2023 8/12

### **SECTION 11: Toxicological information**

**Skin contact**: Prolonged or repeated contact can defat the skin and lead to irritation, cracking

and/or dermatitis.

**Ingestion**: Exposure can cause stomach pains, vomiting and diarrhoea.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

### **Short term exposure**

Potential immediate

: Not available.

effects

Potential delayed effects

: Not available.

Long term exposure

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

### Potential chronic health effects

Not available.

Conclusion/Summary : Specific target organ toxicity (single exposure) - Based on available data, the

classification criteria are not met.

Specific target organ toxicity (repeated exposure) - May cause damage to organs

through prolonged or repeated exposure if swallowed.

Aspiration hazard - Based on available data, the classification criteria are not met.

**General**: May cause damage to organs through prolonged or repeated exposure if

swallowed.

Carcinogenicity : Not applicable.

Mutagenicity : Not applicable

**Reproductive toxicity**: No known significant effects or critical hazards.

#### 11.2 Information on other hazards

### 11.2.1 Endocrine disrupting properties

Not applicable.

### 11.2.2 Other information

Not available.

### **SECTION 12: Ecological information**

Ecotoxicological data on the substances included in this product show that the product is not classified as harmful to the environment.

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
BENZOIC ACID, SODIUM SALT	Acute LC50 484000 μg/l Fresh water	Fish - Pimephales promelas	96 hours

**Conclusion/Summary**: Based on available data, the classification criteria are not met.

### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Not applicable	-	-	-	-

### Conclusion/Summary : Not applicable

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Not applicable	-	-	-

### 12.3 Bioaccumulative potential

Date of issue/Date of revision : 9/26/2023 9/12

### **SECTION 12: Ecological information**

Product/ingredient name	LogPow	BCF	Potential
Not applicable	-	-	-

### 12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

**Mobility**: Water-soluble liquid

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

### 12.6 Endocrine disrupting properties

Not applicable.

#### 12.7 Other adverse effects

No known significant effects or critical hazards.

### **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 13.1 Waste treatment methods

#### **Product**

Methods of disposal

: Waste must be disposed of in accordance with federal, state and local

environmental control regulations.

Hazardous waste

: This product is listed as Hazardous by the EU Directive on hazardous waste. Dispose of according to all national and local applicable regulations.

### European waste catalogue (EWC)

Waste code	Waste designation
16 01 14*	antifreeze fluids containing hazardous substances

### **Packaging**

Methods of disposal

: Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions

: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of

spilt material and runoff and contact with soil, waterways, drains and sewers.

### **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	Not available.	Not regulated.	Not available.	Not available.
14.2 UN proper shipping name	Not available.	-	-	Not available.
14.3 Transport hazard class(es)	Not available.	-	Not available.	Not available.
14.4 Packing group	-	-	-	-

Date of issue/Date of revision : 9/26/2023 10/12

14.6 Special precautions for

user

: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do

in the event of an accident or spillage.

14.7 Maritime transport in bulk according to IMO

instruments

**Environmental** hazards

: Not available.

### **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

### Annex XIV - List of substances subject to authorisation

### **Annex XIV**

None of the components are listed.

### Substances of very high concern

None of the components are listed.

### Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

No listed substance

### Other EU regulations

Industrial emissions

: Not listed

(integrated pollution prevention and control) -

Air

Industrial emissions

: Not listed

(integrated pollution prevention and control) -

Water

**Explosive precursors** 

### Ozone depleting substances (1005/2009/EU)

Not listed.

### Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

### **Persistent Organic Pollutants**

Not listed.

### **Seveso Directive**

This product is not controlled under the Seveso Directive.

### **National regulations**

### **International regulations**

### Chemical Weapon Convention List Schedules I, II & III Chemicals

List name	Ingredient name	Status
Not applicable	-	-

### **Montreal Protocol**

Not listed.

### **Stockholm Convention on Persistent Organic Pollutants**

Not listed.

Date of issue/Date of revision : 9/26/2023 11/12

### **SECTION 15: Regulatory information**

### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

15.2 Chemical safety

assessment

: No Chemical Safety Assessment has been carried out.

### **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

**Abbreviations and acronyms**: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Acute Tox. 4, H302	Expert judgment
STOT RE 2, H373 (kidneys) (oral)	Expert judgment

### Full text of abbreviated H statements

H302 H319 H332 H373	Harmful if swallowed. Causes serious eye irritation. Harmful if inhaled. May cause damage to organs through prolonged or repeated exposure.
H3/3	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

### Full text of classifications [CLP/GHS]

Acute Tox. 4 ACUTE TOXICITY - Category 4
Aquatic Chronic 3 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Eye Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

STOT RE 2 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2

Date of issue/ Date of : 9/26/2023

revision

Version : 1

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

Date of issue/Date of revision : 9/26/2023 12/12



# **Safety Data Sheet**

Issue Date: 22-Oct-2012 Revision Date: 28-Feb-2022 Version 1

### 1. IDENTIFICATION

**Product Identifier** 

Product Name Gold Band Non-Detergent Motor Oil

Other means of identification SAE 10, SAE 20, SAE 30, SAE 40, SAE 50

**SDS #** GB-002

Recommended use of the chemical and restrictions on use

Recommended Use A straight mineral oil, containing no additives. It is recommended for applications recommending

non-detergent oil, or API SA quality.

### Details of the supplier of the safety data sheet

Supplier Address Warren Oil Company 915 E. Jefferson Ave. West Memphis, AR 72301

**Emergency Telephone Number** 

Company Phone Number 1-800-428-9284

Emergency Telephone (24 hr) Chemtrec 1-800-424-9300 (North America) 1-703-527-3887 (International)

### 2. HAZARDS IDENTIFICATION

Appearance Light amber, viscous liquid Physical State Viscous liquid Odor Typical petroleum

#### Classification

This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Severely Hydrotreated Heavy Naphthenic	64742-52-5	90-100
Petroleum Oil		

<sup>\*\*</sup>If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

### 4. FIRST-AID MEASURES

### **First Aid Measures**

**Eye Contact** Flush eyes with large amounts of water, for at least 15 minutes, until irritation subsides. If

irritation persists get medical attention.

Skin Contact No treatment is necessary under ordinary circumstances. Remove contaminated clothing

and shoes. Wash contaminated area thoroughly with soap and water. If redness or irritation occurs and persists, seek medical attention. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the

Revision Date: 28-Feb-2022

individual should seek immediate medical attention.

**Inhalation** Remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If

breathing is difficult, give oxygen. Get medical attention.

**Ingestion** If swallowed, do not induce vomiting. If victim exhibits signs of lung aspiration such as

coughing or choking, seek immediate medical attention.

### Most important symptoms and effects

**Symptoms** Expected to be a minor eye irritant. Repeated or prolonged skin contact may cause

dermatitis.

#### Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

#### **Suitable Extinguishing Media**

Use dry chemical, foam, carbon dioxide or water fog.

Unsuitable Extinguishing Media While carbon dioxide and inert will extinguish the fire, they can also displace oxygen. Use

caution when applying carbon dioxide or inert gas in confined spaces.

#### **Specific Hazards Arising from the Chemical**

This material can burn but will not readily ignite. This material will release vapors when heated above the flashpoint temperature that can ignite when exposed to a source of ignition. In enclosed spaces, heated vapor can ignite with explosive force. Mists or sprays may burn at temperatures below the flashpoint. Dense smoke may be generated while burning.

**Hazardous Combustion Products** Carbon monoxide (CO). Carbon dioxide (CO2). Aldehydes. Ketones. Combustion products of sulfur and nitrogen.

### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Avoid breathing smoke and vapor. Water may be used to cool containers exposed to heat or flame.

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

**Personal Precautions**Use personal protective equipment as required.

### Methods and material for containment and cleaning up

Methods for Containment Remove sources of ignition. Contain any spills with dikes or absorbents to prevent

migration and entry into sewers or streams.

Methods for Clean-Up Take up small spills with absorbent pads. Large spills may be taken up with pump or

vacuum.

### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on Safe Handling

Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Store at ambient conditions. Store at atmospheric pressure. Keep container tightly closed.

Store in a cool, well-ventilated place. Keep away from heat, sparks, and flame. Empty

Revision Date: 28-Feb-2022

containers retain product residues.

**Incompatible Materials**This product may react with strong oxidizing agents.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Severely Hydrotreated Heavy Naphthenic	TWA: 5 mg/m³ (oil mist)	TWA: 5mg/m³ (oil mist)	TWA: none estab.
Petroleum Oil	STEL: 10 mg/m <sup>3</sup> (oil mist)	STEL: none estab.	STEL: none estab.
64742-52-5	• , ,		

#### **Appropriate engineering controls**

**Engineering Controls**Use general ventilation and use local exhaust, where possible, in confined or enclosed

spaces. If product is heated above 70 C (155 F) in the presence of water, hydrogen sulfide vapors may be released. Ventilation should be sufficient to keep hydrogen sulfide levels

below recommended exposure limits. Eye wash fountains are recommended.

#### Individual protection measures, such as personal protective equipment

Eye/Face Protection Wear safety glasses. Wear chemical goggles or face shield if splash or mist occurs.

Skin and Body Protection Use impervious gloves for prolonged contact. Wear oil-impervious garments if contact is

unavoidable.

Respiratory Protection If mist is generated (heating, spraying) and engineering controls are not sufficient, wear

approved organic vapor respirator suitable for oil mist.

General Hygiene Considerations Use good hygiene when handling petroleum product. Launder contaminated clothing before

reuse. Excessive misting may cause slippery floors - wear appropriate footwear.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical State Viscous liquid

AppearanceLight amber, viscous liquidOdorTypical petroleumColorLight amberOdor ThresholdNot determined

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH Not available
Melting Point/Freezing Point Not available
Boiling Point/Boiling Range Not available
Flash Point 202 °C / 396

Flash Point 202 °C / 396 °F ASTM D-92

Evaporation Rate
Flammability (Solid, Gas)
Upper Flammability Limits
Lower Flammability Limit
Vapor Pressure

Not available
Liquid-Not applicable
Not determined
Not determined
Not available

Revision Date: 28-Feb-2022

Vapor Density >1 (Air=1)

Specific Gravity 0.87 Water Solubility insoluble

Solubility in other solvents
Partition Coefficient
Not determined
Not available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

Auto-ignition Temperature

Decomposition Temperature

Kinematic Viscosity

Dynamic Viscosity

Explosive Properties

Oxidizing Properties

No data available

Not determined

Not determined

Not determined

Not determined

Not determined

### 10. STABILITY AND REACTIVITY

#### Reactivity

Not reactive under normal conditions.

#### **Chemical Stability**

Stable under recommended storage conditions.

#### **Possibility of Hazardous Reactions**

None under normal processing.

**Hazardous Polymerization** Under normal conditions of storage and use, hazardous polymerization will not occur.

### **Conditions to Avoid**

Avoid formation of mists. Extreme heat, open flames or sparks. Keep separated from incompatible substances.

#### **Incompatible Materials**

This product may react with strong oxidizing agents.

### **Hazardous Decomposition Products**

Decomposition of this product may yield oxides of boron, calcium, magnesium, nitrogen, phosphorus, sulfur including hydrogen sulfide and zinc as well as carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

### 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

**Product Information** 

**Eye Contact** Avoid contact with eyes.

**Skin Contact** Avoid contact with skin.

**Inhalation** Do not inhale.

**Ingestion** Do not ingest.

### **Component Information**

### Information on physical, chemical and toxicological effects

**Symptoms** Please see section 4 of this SDS for symptoms.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

IARC or NTP.

### **Numerical measures of toxicity**

Carcinogenicity

Not determined

### 12. ECOLOGICAL INFORMATION

Revision Date: 28-Feb-2022

This product does not contain any carcinogens or potential carcinogens as listed by OSHA,

### **Ecotoxicity**

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

### **Component Information**

Chemical Name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Severely Hydrotreated		5000: 96 h Oncorhynchus		1000: 48 h Daphnia magna
Heavy Naphthenic		mykiss mg/L LC50		mg/L EC50
Petroleum Oil				
64742-52-5				

### Persistence/Degradability

Not determined.

### **Bioaccumulation**

Not determined.

#### Mobility

Not determined

#### **Other Adverse Effects**

Not determined

### 13. DISPOSAL CONSIDERATIONS

### **Waste Treatment Methods**

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and

regulations.

### 14. TRANSPORT INFORMATION

**Note** Please see current shipping paper for most up to date shipping information, including

exemptions and special circumstances.

**DOT** Not regulated

IATA Not regulated

<u>IMDG</u> Not regulated

### 15. REGULATORY INFORMATION

### **International Inventories**

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Severely Hydrotreated Heavy Naphthenic Petroleum Oil	Present	Х		Present		Present	Х	Present	Х	Х

Revision Date: 28-Feb-2022

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

### US Federal Regulations

### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

### SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

### **US State Regulations**

### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

### U.S. State Right-to-Know Regulations

This product does not contain any substances regulated under applicable state right-to-know regulations

### **16. OTHER INFORMATION**

Revision Date: 28-Feb-2022

NFPAHealth Hazards<br/>0Flammability<br/>1Instability<br/>0Special Hazards<br/>Not determinedHMISHealth Hazards<br/>1Flammability<br/>1Physical Hazards<br/>0Personal Protection<br/>Not determined

 Issue Date:
 22-Oct-2012

 Revision Date:
 28-Feb-2022

### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet** 

Revision Date 24-Apr-2015 Version 1

### 1. IDENTIFICATION

Product identifier

Product Name the Works Toilet Bowl Cleaner

Other means of identification

Product Code 324WK UN/ID no. UN3264

Recommended use of the chemical and restrictions on use

Recommended Use Home care.

Uses advised against Do not mix with other chemicals

Details of the supplier of the safety data sheet

**Supplier Address** HomeCare Labs, Inc. P.O. Box 491150

Lawrenceville, GA 30049-1002 Telephone: (800) 949-7946

Emergency telephone number

Emergency Telephone Chemtrec (Transportation) 1-800-424-9300, 703-527-3887

Poison Control Center (Medical): (877) 800-5553

### 2. HAZARDS IDENTIFICATION

### Classification

### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Inhalation (Gases)	Category 4
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1

#### Label elements

### **Emergency Overview**

### Danger

### Hazard statements

Harmful if inhaled

Causes severe skin burns and eye damage



Color blue Physical state liquid Odor Mint-like

### **Precautionary Statements - Prevention**

Use only outdoors or in a well-ventilated area

Do not breathe dust/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

### **Precautionary Statements - Response**

Immediately call a POISON CENTER or doctor/physician

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell Immediately call a POISON CENTER or doctor/physician IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

#### **Precautionary Statements - Storage**

Store locked up

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

### Hazards not otherwise classified (HNOC)

Not applicable

#### Other Information

0.59% of the mixture consists of ingredient(s) of unknown toxicity

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### <u>Mixture</u>

Chemical Name	CAS No.	Weight-%
Hydrochloric Acid	7647-01-0	9.5

### 4. FIRST AID MEASURES

### **Description of first aid measures**

General advice Immediate medical attention is required.

Eye contact Immediate medical attention is required. Rinse immediately with plenty of water, also under

the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected

area. Call a physician immediately.

**Skin contact** Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. If skin irritation persists, call a physician.

**Inhalation** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen. If symptoms persist, call a physician.

**Ingestion** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Clean

mouth with water and drink afterwards plenty of water. Call a physician or poison control

center immediately.

**Self-protection of the first aider**Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

#### Most important symptoms and effects, both acute and delayed

Symptoms No information available.

#### Indication of any immediate medical attention and special treatment needed

**Note to physicians** Product is a corrosive material. Use of gastric lavage or emesis is contraindicated.

Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. Treat

symptomatically.

#### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media None known.

#### Specific hazards arising from the chemical

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating and toxic gases and vapors. In the event of fire and/or explosion do not breathe fumes.

#### **Explosion data**

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Evacuate personnel to safe areas. Use personal protective equipment as required. Avoid

contact with skin, eyes or clothing. Keep people away from and upwind of spill/leak.

**Environmental precautions** 

**Environmental precautions** Do not allow into any sewer, on the ground or into any body of water. Should not be

released into the environment. Prevent further leakage or spillage if safe to do so. Prevent

product from entering drains. See Section 12 for additional ecological information.

#### Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Dike far ahead of liquid spill for later disposal. Soak up with inert absorbent material. Take

up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. Prevent product from entering drains. Dam up. After cleaning, flush away traces

with water.

#### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on safe handling Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

Ensure adequate ventilation, especially in confined areas. In case of insufficient ventilation, wear suitable respiratory equipment. Use only with adequate ventilation and in closed systems. Do not breathe dust/fume/gas/mist/vapors/spray. Do not mix with other chemicals.

#### Conditions for safe storage, including any incompatibilities

Storage Conditions Keep out of the reach of children. Keep containers tightly closed in a dry, cool and

well-ventilated place. Keep in properly labeled containers.

Incompatible materials Chlorine bleach. Incompatible with strong acids and bases. Incompatible with oxidizing

agents. Chlorine-based bleaching agents. Ammonia. rust removers. Vinegar. Contact with

metals may evolve flammable hydrogen gas.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Hydrochloric Acid 7647-01-0	Ceiling: 2 ppm	(vacated) Ceiling: 5 ppm (vacated) Ceiling: 7 mg/m³ Ceiling: 5 ppm Ceiling: 7 mg/m³	IDLH: 50 ppm Ceiling: 5 ppm Ceiling: 7 mg/m³

NIOSH IDLH Immediately Dangerous to Life or Health

Other Information Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992).

**Appropriate engineering controls** 

Engineering Controls Showers

Eyewash stations Ventilation systems.

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles). Tight sealing safety goggles. Face

protection shield.

**Skin and body protection** Wear protective gloves and protective clothing.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

General Hygiene Considerations When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Keep

away from food, drink and animal feeding stuffs. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Take off all contaminated clothing

and wash it before reuse. Wear suitable gloves and eye/face protection.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state liquid

Appearanceaqueous solutionOdorMint-like

Color Odor threshold No information available

Property Values Remarks • Method

pH <

Melting point/freezing point
Boiling point / boiling range
Flash point

-40 °C / -40 °F
102 °C / 215 °F
No information available

**Evaporation rate**No information available **Flammability (solid, gas)**No information available

Flammability Limit in Air

Upper flammability limit:
Lower flammability limit:
Vapor pressure
Vapor density

No information available
No information available
No information available

Specific Gravity 1.092 - 1.106

Water solubility Completely miscible with water

Solubility in other solvents No information available No information available **Partition coefficient Autoignition temperature** No information available **Decomposition temperature** No information available Kinematic viscosity No information available **Dynamic viscosity** No information available **Density** No information available **Bulk density** No information available **Explosive properties** No information available Oxidizing properties No information available

Other Information

Softening point
Molecular weight
VOC Content (%)
No information available
No information available
No information available

#### 10. STABILITY AND REACTIVITY

#### Reactivity

No data available

#### **Chemical stability**

Stable under recommended storage conditions.

#### **Possibility of Hazardous Reactions**

None under normal processing.

#### **Conditions to avoid**

Extremes of temperature and direct sunlight.

#### Incompatible materials

Chlorine bleach. Incompatible with strong acids and bases. Incompatible with oxidizing agents. Chlorine-based bleaching agents. Ammonia. rust removers. Vinegar. Contact with metals may evolve flammable hydrogen gas.

#### **Hazardous Decomposition Products**

Thermal decomposition can lead to release of irritating and toxic gases and vapors. Hydrogen chloride.

#### 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

**Inhalation** Avoid breathing vapors or mists. Irritating to respiratory system. Harmful by inhalation.

**Eye contact** Severely irritating to eyes. Risk of serious damage to eyes. Causes burns.

**Skin contact** Contact causes severe skin irritation and possible burns.

**Ingestion** Harmful if swallowed.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Hydrochloric Acid 7647-01-0	238 - 277 mg/kg (Rat)	> 5010 mg/kg ( Rabbit )	= 1.68 mg/L (Rat)1 h

#### Information on toxicological effects

**Symptoms** No information available.

the Works Toilet Bowl Cleaner

Revision Date 24-Apr-2015

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Sensitization**No information available. **Germ cell mutagenicity**No information available.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Hydrochloric Acid 7647-01-0	-	Group 3	-	-

IARC (International Agency for Research on Cancer)

Not classifiable as a human carcinogen

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
Chronic toxicity
Target Organ Effects
Aspiration hazard
No information available.
No information available.
Avoid repeated exposure.
Eyes, Respiratory system, Skin.
No information available.

#### Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

#### 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

0.58735% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Hydrochloric Acid	-	282: 96 h Gambusia affinis mg/L	-
7647-01-0		LC50 static	

#### Persistence and degradability

No information available.

#### **Bioaccumulation**

No information available.

#### **Mobility**

No information available.

Other adverse effects No information available

#### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

Disposal of wastes This material, as supplied, is a hazardous waste according to federal regulations (40 CFR

261).

Contaminated packaging Do not reuse container. Refer to all federal, state and local regulations prior to disposal of

container and unused contents by reuse, recycle or disposal.

#### 14. TRANSPORT INFORMATION

Note: Limited quantity (LQ) exception is possible

DOT

UN/ID no. UN3264

Proper shipping name Corrosive liquid, acidic, inorganic, n.o.s. (Hydrochloric acid solution)

Hazard Class 8
Packing Group || |
Emergency Response Guide 154

Number

IATA

UN/ID no. UN3264

Proper shipping name Corrosive liquid, acidic, inorganic, n.o.s. (hydrochloric acid)

Hazard Class 8
Packing Group ||

**IMDG** 

**UN/ID no.** UN3264

Proper shipping name Corrosive liquid, acidic, inorganic, n.o.s. (hydrochloric acid)

Hazard Class 8
Packing Group II
EmS-No. F-A, S-B
Marine pollutant No

#### 15. REGULATORY INFORMATION

**International Inventories** 

TSCA Complies DSL/NDSL Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

#### **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %	
Hydrochloric Acid - 7647-01-0	1.0	
SARA 311/312 Hazard Categories		
Acute health hazard	Yes	
Chronic Health Hazard	No	
Fire hazard	No	
Sudden release of pressure hazard	No	
Reactive Hazard	No	

#### **CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Hydrochloric Acid 7647-01-0	5000 lb	-	-	X

#### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Hydrochloric Acid	5000 lb	5000 lb	RQ 5000 lb final RQ
7647-01-0			RQ 2270 kg final RQ

#### **US State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals

#### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Hydrochloric Acid	X	X	X
7647-01-0			

#### U.S. EPA Label Information

**EPA Pesticide Registration Number** 5185-505-80306

#### **EPA Statement**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

#### Difference between SDS and EPA Pesticide label

DANGER: CORROSIVE. Causes skin burns and irreversible eye damage. Harmful if swallowed or absorbed through skin. Do not get in eyes, on skin, or on clothing. Wear goggles or safety glasses, protective clothing, and rubber (or chemical-resistant) gloves. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse. Do not breathe vapor or fumes. Keep out of reach of children.CHEMICAL HAZARDS: Do not use with chlorine –type bleach or any other chemical products, to do so may release hazardous gases creating a risk of serious injury, including death.

#### 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA Health hazards 3 Flammability 0 Instability 0 Physical and Chemical

Properties -

HMIS Health hazards 3 Flammability 0 Physical hazards 0 Personal protection X

Prepared ByRegulatory AffairsRevision Date24-Apr-2015

Revision Note No information available

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet** 







#### 1 - Identification

Trade Name: WD-40 MULTI-USE PRODUCT AEROSOL

**Product Use: Lubricant, Penetrant, Drives Out Moisture, Removes and Protects Surfaces from** 

Corrosion

Restrictions on Use: None identified

SDS Date of Preparation: May 21, 2024

Manufacturer: WD-40 Company

Address: 9715 Businesspark Avenue

San Diego, California, USA

92131

Telephone:

Emergency: 1-888-324-7596 Information: 1-888-324-7596

Chemical Spills: 1-800-424-9300 (Chemtrec)

1-703-527-3887 (International Calls)

#### 2 - Hazards Identification

#### **GHS Classification:**

Flammable Aerosol Category 1

Aspiration Toxicity Category 1

Specific Target Organ Toxicity Single Exposure Category 3 (nervous system effects)

This product is a consumer product and is labeled in accordance with local regulations for consumer chemicals. The actual container label may not include the label elements below. The labeling below applies to industrial/professional products.

#### **Label Elements:**



#### DANGER!

H222 Extremely Flammable Aerosol.

H229 Pressurized container: may burst if heated.

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

#### Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P261 Avoid breathing vapors or mists.

P271 Use only outdoors or in a well-ventilated area.

#### Response

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or physician.

P331 Do NOT induce vomiting.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTER or physician if you feel unwell.

#### **Storage**

P405 Store locked up.

P410+P412+P403 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store in a well-ventilated place.

#### Disposal

P501 Dispose of contents and container in accordance with local and national regulations.

3 - Composition/Information on Ingredients

Ingredient	CAS#	Weight Percent	GHS Classification
Aliphatic Hydrocarbon	64742-47-8	50-70%	Flammable Liquid Category 3 Aspiration Toxicity Category 1 Specific Target Organ Toxicity Single Exposure Category 3 (nervous system effects)
Petroleum Base Oil	Mixture	<25%	Not Hazardous
Carbon Dioxide	124-38-9	2-3%	Simple Asphyxiant Gas Under Pressure, Compressed Gas

Note: The exact percentages are a trade secret.

#### 4 - First Aid Measures

**Ingestion (Swallowed):** Aspiration Hazard. DO NOT induce vomiting. Call a physician or poison control center immediately.

**Eye Contact:** Flush thoroughly with water. Remove contact lenses if present after the first 5 minutes and continue flushing for several more minutes. Get medical attention if irritation persists.

**Skin Contact:** Wash with soap and water. If irritation develops and persists, get medical attention.

**Inhalation (Breathing):** If irritation is experienced, move to fresh air. Get medical attention if irritation or other symptoms develop and persist.

**Signs and Symptoms of Exposure:** Harmful or fatal if swallowed. If swallowed, may be aspirated and cause lung damage. May cause eye and respiratory irritation. Skin contact may cause drying of the skin. Inhalation may cause coughing, headache, and dizziness.

**Indication of Immediate Medical Attention/Special Treatment Needed**: Immediate medical attention is needed for ingestion.

#### 5 - Fire Fighting Measures

**Suitable (and unsuitable) Extinguishing Media:** Use water fog, dry chemical, carbon dioxide or foam. Do not use water jet or flooding amounts of water. Burning product will float on the surface and spread fire.

**Specific Hazards Arising from the Chemical:** Contents under pressure. Keep away from ignition sources and open flames. Exposure of containers to extreme heat and flames can cause them to rupture often with violent force. Vapors are heavier than air and may travel along surfaces to remote ignition sources and flash back. Combustion will produce oxides of carbon and hydrocarbons.

**Special Protective Equipment and Precautions for Fire-Fighters:** Firefighters should always wear positive pressure self-contained breathing apparatus and full protective clothing. Cool fire-exposed containers with water. Use shielding to protect against bursting containers.

#### 6 - Accidental Release Measures

**Personal Precautions, Protective Equipment and Emergency Procedures:** Wear appropriate protective clothing (see Section 8). Eliminate all sources of ignition and ventilate the area.

**Methods and Materials for Containment/Cleanup:** Leaking cans should be placed in a plastic bag or open pail until the pressure has dissipated. Contain and collect liquid with an inert absorbent and place in a container for disposal. Clean spill area thoroughly. Report spills to authorities as required.

#### 7 - Handling and Storage

Precautions for Safe Handling: Avoid contact with eyes. Avoid prolonged contact with skin. Avoid breathing vapors or aerosols. Intentional misuse by deliberately concentrating vapors and inhaling can be harmful or fatal. Use only with adequate ventilation. Keep away from heat, sparks, pilot lights, hot surfaces, and open flames. Unplug electrical tools, motors, and appliances before spraying or bringing the can near any source of electricity. Electricity can burn a hole in the can and cause contents to burst into flames. To avoid serious burn injury, do not let the can touch battery terminals, electrical connections on motors or appliances or any other source of electricity. Wash thoroughly with soap and water after handling. Keep containers closed when not in use. Keep out of the reach of children. Do not puncture, crush, or incinerate containers, even when empty.

**Conditions for Safe Storage:** Store in a cool, well-ventilated area, away from incompatible materials do not store above 120°F or in direct sunlight. U.F.C (NFPA 30B) Level 3 Aerosol. Store away from oxidizers.

8 - Exposure Controls/Personal Protection

Chemical	Occupational Exposure Limits
Aliphatic Hydrocarbon	1200 mg/m3 TWA (manufacturer recommended)
Petroleum Base Oil (as mineral	5 mg/m3 TWA Mexico OEL
oil)	5 mg/m3 TWA (inhalable) ACGIH TLV
Carbon Dioxide	5000 ppm TWA, 15000 ppm STEL Mexico OEL
	5000 ppm TWA, 30000 ppm STEL ACGIH TLV

#### The Following Controls are Recommended for Normal Consumer Use of this Product

Appropriate Engineering Controls: Use in a well-ventilated area.

**Personal Protection:** 

Eye Protection: Avoid eye contact. Always spray away from your face.

Skin Protection: Avoid prolonged skin contact. Chemical resistant gloves recommended for operations where skin

contact is likely.

Respiratory Protection: None needed for normal use with adequate ventilation.

#### For Bulk Processing or Workplace Use the Following Controls are Recommended

**Appropriate Engineering Controls:** Use adequate general and local exhaust ventilation to maintain exposure levels below the occupational exposure limits.

**Personal Protection:** 

**Eye Protection:** Safety goggles recommended where eye contact is possible.

Skin Protection: Wear chemical resistant gloves.

Respiratory Protection: None required if ventilation is adequate. If the occupational exposure limits are exceeded, wear

a NIOSH approved respirator. Respirator selection and use should be based on contaminant type, form, and

concentration. Follow local regulations and good Industrial Hygiene practice.

Work/Hygiene Practices: Wash with soap and water after handling.

9 - Physical and Chemical Properties

Appearance:	Light green to amber liquid	Flammable Limits: (Solvent Portion)	LEL: 0.6% UEL: 8%
Odor:	Mild petroleum odor	Vapor Pressure:	95-115 PSI @ 70°F (21.1°C)
Odor Threshold:	Not established	Vapor Density:	Greater than 1 (air=1)
pH:	Not Applicable	Relative Density:	0.8 – 0.82 @ 60°F (15.6°C)
Melting/Freezing Point:	Not established	Solubilities:	Insoluble in water
Boiling Point/Range:	361 - 369°F (183 - 187°C)	Partition Coefficient; n-octanol/water:	Not established
Flash Point:	122°F (49°C) Tag Closed Cup (concentrate)	Autoignition Temperature:	Not established
Evaporation Rate:	Not established	Decomposition Temperature:	Not established
Flammability (solid, gas):	Flammable Aerosol	Viscosity:	2.79-2.96 cSt @ 100°F (37.8°C)
VOC:	65%	Pour Point:	-63°C (-81.4°F) ASTM D-97

#### 10 - Stability and Reactivity

Reactivity: Not reactive under normal conditions

Chemical Stability: Stable

Possibility of Hazardous Reactions: May react with strong oxidizers generating heat.

Conditions to Avoid: Avoid heat, sparks, flames, and other sources of ignition. Do not puncture or incinerate containers.

**Incompatible Materials:** Strong oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide and carbon dioxide.

#### 11 - Toxicological Information

#### **Symptoms of Overexposure:**

**Inhalation:** High concentrations may cause nasal and respiratory irritation and central nervous system effects such as headache, dizziness, and nausea. Intentional abuse may be harmful or fatal.

**Skin Contact:** Prolonged and/or repeated contact may produce mild irritation and defatting with possible dermatitis.

Eye Contact: Contact may be irritating to eyes. May cause redness and tearing.

**Ingestion:** Swallowing is an unlikely route of exposure for an aerosol product. This product has low oral toxicity. Swallowing may cause gastrointestinal irritation, nausea, vomiting and diarrhea. This product is an aspiration hazard. If swallowed, can enter the lungs, and may cause chemical pneumonitis, severe lung damage and death.

Chronic Effects: None expected.

Carcinogen Status: None of the components are listed as a carcinogen or suspect carcinogen by IARC, NTP, ACGIH or

OSHA.

Reproductive Toxicity: None of the components is considered a reproductive hazard.

#### **Numerical Measures of Toxicity:**

The oral toxicity of this product is estimated to be greater than 5,000 mg/kg and the dermal toxicity greater than 2,000 mg/kg based on an assessment of the ingredients. This product is not classified as toxic by established criteria. It is an aspiration hazard.

#### 12 - Ecological Information

**Ecotoxicity:** No specific aquatic toxicity data is currently available; however, components of this product are not expected to be harmful to aquatic organisms.

Persistence and Degradability: Components are readily biodegradable.

Bioaccumulative Potential: Bioaccumulation is not expected based on an assessment of the ingredients.

Mobility in Soil: No data available
Other Adverse Effects: None known

#### 13 - Disposal Considerations

Do not puncture or incinerate containers, even empty. Dispose in accordance with federal, state, and local regulations.

#### 14 - Transportation Information

DOT Surface Shipping Description: UN1950, Aerosols, 2.1 Ltd. Qty

(Note: Shipping Papers are not required for Limited Quantities unless transported by air or vessel – each package must

be marked with the Limited Quantity Mark)

IMDG Shipping Description: UN1950, Aerosols, 2.1, LTD QTY ICAO Shipping Description: UN1950, Aerosols, flammable, 2.1

NOTE: WD-40 Company does not test aerosol cans to assure that they meet the pressure and other requirements for transport by air. We do not recommend that our aerosol products be transported by air.

#### 15 - Regulatory Information

**EPA Toxic Substances Control Act (TSCA) Status:** All of the components of this product are listed on the TSCA inventory.

**Canadian Environmental Protection Act:** One of the components is listed on the NDSL. All of the other ingredients are listed on the Canadian Domestic Substances List or exempt from notification.

#### 16 - Other Information

#### **HMIS Hazard Rating:**

Health – 1 (slight hazard), Fire Hazard – 4 (severe hazard), Physical Hazard – 0 (minimal hazard)

Revision Date: May 21, 2024 Supersedes: August 3, 2021

Revision Summary: Reviewed and updated SDS.

Prepared by: IHSC, LLC. Milford, CT, USA

Reviewed by: I. Kowalski Regulatory Affairs Department



4093100/ No.0069810

according to Hazard Communication Standard; 29 CFR 1910.1200



#### WINDEX® CLEANER ORIGINAL

Version 1.4 Print Date 05/30/2023

SDS Number 350000014153 Revision Date 06/20/2019

#### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product information** 

Product name : WINDEX® CLEANER ORIGINAL

Recommended use : Hard Surface Cleaner

Restrictions on use : Use only as directed on label

supplier

Manufacturer, importer, : S.C. Johnson & Son, Inc.

1525 Howe Street

Racine WI 53403-2236

Telephone : +1-800-558-5252

Emergency telephone

number

: 24 Hour Medical Emergency Phone: (866)231-5406 24 Hour Transport Emergency Phone: (800)424-9300

#### 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

#### Globally Harmonized System (GHS) Classification

This product does not meet the criteria for classification in any hazard class according to regulation OSHA 29 CFR 1910.1200.

Labelling

**Precautionary statements** 

Other hazards None identified

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

This product does not contain hazardous chemicals at or above a reportable level as defined by OSHA 29 CFR 1910.1200

For additional information on product ingredients, see www.whatsinsidescjohnson.com.

according to Hazard Communication Standard; 29 CFR 1910.1200



#### WINDEX® CLEANER ORIGINAL

Version 1.4 Print Date 05/30/2023

Revision Date 06/20/2019 SDS Number 350000014153

#### 4. FIRST AID MEASURES

#### **Description of first aid measures**

**Eye contact** : No special requirements

**Skin contact** : No special requirements

**Inhalation** : No special requirements.

**Ingestion** : No special requirements

#### Most important symptoms and effects, both acute and delayed

Eyes : No adverse effects expected when used as directed.

Skin effect : No adverse effects expected when used as directed.

Inhalation : No adverse effects expected when used as directed.

Ingestion : No adverse effects expected when used as directed.

#### Indication of any immediate medical attention and special treatment needed

See Description of first aid measures unless otherwise stated.

#### **5. FIREFIGHTING MEASURES**

Suitable extinguishing

media

: Use water spray, alcohol-resistant foam, dry chemical or

carbon dioxide.

Specific hazards during

firefighting

: Container may melt and leak in heat of fire.

**Further information** : Fight fire with normal precautions from a reasonable distance.

Standard procedure for chemical fires. Wear full protective clothing and positive pressure self-contained breathing

apparatus.

according to Hazard Communication Standard; 29 CFR 1910.1200



#### WINDEX® CLEANER ORIGINAL

Version 1.4 Print Date 05/30/2023

SDS Number 350000014153 Revision Date 06/20/2019

#### **6. ACCIDENTAL RELEASE MEASURES**

Personal precautions : Wash thoroughly after handling.

**Environmental** precautions

Outside of normal use, avoid release to the environment.

Methods and materials for containment and

cleaning up

Dike large spills.

Clean residue from spill site.

#### 7. HANDLING AND STORAGE

Handling

**Precautions for safe** 

handling

: Avoid contact with skin, eyes and clothing.

For personal protection see section 8.

KEEP OUT OF REACH OF CHILDREN AND PETS.

Advice on protection

against fire and explosion

: Normal measures for preventive fire protection.

**Storage** 

areas and containers

**Requirements for storage**: Keep container closed when not in use.

Other data : Stable under normal conditions.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Occupational Exposure Limits**

ACGIH or OSHA exposure limits have not been established for this product or reportable ingredients unless noted in the table above.

#### Personal protective equipment

Respiratory protection : No special requirements.

Hand protection : No special requirements.

Eye protection No special requirements.

Skin and body protection No special requirements.

according to Hazard Communication Standard; 29 CFR 1910.1200



#### WINDEX® CLEANER ORIGINAL

Version 1.4 Print Date 05/30/2023

Revision Date 06/20/2019 SDS Number 350000014153

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice. Wash thoroughly after handling.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Form : liquid

Color blue

Odour floral

**Odour Threshold** : Test not applicable for this product type

pН : 10.7

at (25 C)

Melting point/freezing point : 0 C

Initial boiling point and

boiling range

: 100 C

Flash point : does not flash

**Evaporation rate** : Test not applicable for this product type

Flammability (solid, gas) : Does not sustain combustion.

explosive limits

**Upper/lower flammability or** : Test not applicable for this product type

Vapour pressure : Calculated31.7 hPa

Vapour density : Test not applicable for this product type

according to Hazard Communication Standard; 29 CFR 1910.1200



#### WINDEX® CLEANER ORIGINAL

Version 1.4 Print Date 05/30/2023

Revision Date 06/20/2019 SDS Number 350000014153

Relative density : 1.00 g/cm3 at 25 C

Solubility(ies) : soluble

Partition coefficient: n-

octanol/water

: Test not applicable for this product type

**Auto-ignition temperature** : Test not applicable for this product type

**Decomposition temperature**: Heating can release hazardous gases.

Viscosity, dynamic : similar to water

Viscosity, kinematic : similar to water

Oxidizing properties : Test not applicable for this product type

Volatile Organic Compounds

Total VOC (wt. %)\*

: 0.2 % - additional exemptions may apply

\*as defined by US Federal and State Consumer Product

Regulations

Other information : None identified

#### 10. STABILITY AND REACTIVITY

**Reactivity**: No dangerous reaction known under conditions of normal use.

**Chemical stability** : Stable under recommended storage conditions.

Possibility of hazardous

reactions

: If accidental mixing occurs and toxic gas is formed, exit area

immediately. Do not return until well ventilated.

according to Hazard Communication Standard; 29 CFR 1910.1200



#### WINDEX® CLEANER ORIGINAL

Version 1.4 Print Date 05/30/2023

Revision Date 06/20/2019 SDS Number 350000014153

Conditions to avoid : Direct sources of heat.

**Incompatible materials** : Do not mix with bleach or any other household cleaners.

Strong bases

Hazardous decomposition

products

: Thermal decomposition can lead to release of irritating gases

and vapours.

#### 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50 > 5000 mg/kg Acute inhalation toxicity : LC50 > 10 mg/L

Acute dermal toxicity : LD50 > 5000 mg/kg

GHS Properties	Classification	Routes of entry
Acute toxicity	No classification proposed	Oral
Acute toxicity	No classification proposed	Dermal
Acute toxicity	No classification proposed	Inhalation - Dust and Mist
Acute toxicity	No classification proposed	Inhalation - Vapour
Acute toxicity	No classification proposed	Inhalation - Gas
Skin corrosion/irritation	No classification proposed	-
Serious eye damage/eye irritation	No classification proposed	-
Skin sensitisation	No classification proposed	-
Respiratory sensitisation	No classification proposed	-
Germ cell mutagenicity	No classification proposed	-
Carcinogenicity	No classification proposed	-

according to Hazard Communication Standard; 29 CFR 1910.1200



#### WINDEX® CLEANER ORIGINAL

Version 1.4 Print Date 05/30/2023

Revision Date 06/20/2019 SDS Number 350000014153

Reproductive toxicity	No classification proposed	-
Specific target organ toxicity - single exposure	No classification proposed	-
Specific target organ toxicity - repeated exposure	No classification proposed	-
Aspiration hazard	No classification proposed	-

Aggravated Medical

Condition

: None known.

#### 12. ECOLOGICAL INFORMATION

**Product**: The product itself has not been tested.

#### **Toxicity**

The ingredients in this formula have been reviewed and no adverse impact to the environment is expected when used according to label directions.

No environmental data required.

Other adverse effects : None known.

#### 13. DISPOSAL CONSIDERATIONS

Consumer may discard empty container in trash, or recycle where facilities exist.

#### 14. TRANSPORT INFORMATION

Please refer to the Bill of Lading/receiving documents for up-to-date shipping information.

#### Land transport

Not classified as dangerous in the meaning of transport regulations.

according to Hazard Communication Standard; 29 CFR 1910.1200



#### WINDEX® CLEANER ORIGINAL

Version 1.4 Print Date 05/30/2023

Revision Date 06/20/2019 SDS Number 350000014153

#### Sea transport

Not classified as dangerous in the meaning of transport regulations.

#### Air transport

Not classified as dangerous in the meaning of transport regulations.

#### 15. REGULATORY INFORMATION

Notification status : All ingredients of this product are listed or are excluded from

listing on the U.S. Toxic Substances Control Act (TSCA)

Chemical Substance Inventory.

Notification status : All ingredients of this product comply with the New Substances

Notification requirements under the Canadian Environmental

Protection Act (CEPA).

State Right To Know

No components are subject to the Massachusetts Right to Know Act.				
No components are subject to the Minnesota "Right To Know" Act				
No components are subject to the New Jersey "Right To Know" Act				
Pennsylvania RTKL Water 7732-18-5				
	Ammonium Hydroxide	1336-21-6		

according to Hazard Communication Standard; 29 CFR 1910.1200



#### WINDEX® CLEANER ORIGINAL

Version 1.4 Print Date 05/30/2023

Revision Date 06/20/2019 SDS Number 350000014153

#### **16. OTHER INFORMATION**

#### **HMIS Ratings**

niviis Katiliys	
Health	1
Flammability	0
Reactivity	0

#### **NFPA Ratings**

Health	1
Fire	0
Reactivity	0
Special	-

This information is being provided in accordance with the Occupational Safety and Health Administration (OSHA) regulation (29 CFR 1910.1200). The information supplied is designed for workplaces where product use and frequency of exposure exceeds that established for the labeled consumer use.

#### **Further information**

This document has been prepared using data from sources considered to be technically reliable. It does not constitute a warranty, expressed or implied, as to the accuracy of the information contained herein. Actual conditions of use are beyond the seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.

Prepared by	SC Johnson Global Safety Assessment &
	Regulatory Affairs (GSARA)



# **WOLF'S HEAD LUBRICANTS**

The Finest Of The Fine Since 1879®
1601 McCloskey Blvd.
Tampa, FL 33605 U.S.A.
E-MAIL: info@wolfshead.com
http://www.wolfshead.com/
Telephone: 813-569-8106 Fax: 813-248-1488

810003081

Page 1/9

# Safety data sheet according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and GHS

Revision: 07.17.2015

#### 1 Identification of the substance/mixture and of the company/undertaking

- · 1.1 Product identifier
- · Trade name: WOLF'S HEAD HYD/COMP OIL ND 30
- **CAS Number:** 64742-54-7
- · EC number:
- 265-157-1
- · Index number:

649-467-00-8

- · Application of the substance / the preparation Lubricant Oils
- · 1.3 Details of the supplier of the Safety Data Sheet
- · Manufacturer/Supplier:

WOLF'S HEAD LÜBRICANTS 1601 McCloskey Boulevard Tampa, FL 33605 U.S.A.

Phone: 813-569-8106

· 1.4 Emergency telephone number:

ChemTel Inc.

(800)255-3924, +1 (813)248-0585

#### 2 Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008

The substance is not classified according to the CLP regulation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC
 See Note L below.

Carc. Cat. 2

- Information concerning particular hazards for human and environment: Not applicable.
- · 2.2 Label elements
- Labeling according to Regulation (EC) No 1272/2008 N/A
- Hazard pictograms N/A
- · Signal word N/A
- · Hazard statements N/A

(Contd. on page 2)

# Safety data sheet according to 1907/2006/EC (REACH),

1272/2008/EC (CLP), and GHS

Trade name: WOLF'S HEAD HYD/COMP OIL ND 30

(Contd. of page 1)

- · Hazard description:
- · WHMIS-symbols: Not hazardous under WHMIS.
- HMIS Long Term Health Hazard Substances

Substance is not listed.

- 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable. · vPvB: Not applicable.

#### 3 Composition/information on ingredients

- · 3.1 Substances
- · CAS No. Description

64742-54-7 Distillates (petroleum), hydrotreated heavy paraffinic

- · Identification number(s)
- · EC number: 265-157-1
- · Index number: 649-467-00-8
- · Additional information:

Note L: The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions - Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This product meets these requirements.

#### 4 First aid measures

- · 4.1 Description of first aid measures
- General information: No special measures required.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· After eye contact:

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

· 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

· 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

(Contd. on page 3)

# Safety data sheet

# according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and GHS

Trade name: WOLF'S HEAD HYD/COMP OIL ND 30

(Contd. of page 2)

#### 5 Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:

Water haze or fog

Foam

Fire-extinguishing powder

Carbon dioxide

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · 5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Carbon monoxide (CO)

Under certain fire conditions, traces of other toxic gases cannot be excluded.

- 5.3 Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

#### 6 Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Wear protective equipment. Keep unprotected persons away.

· 6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

Prevent from spreading (e.g. by damming-in or oil barriers).

· 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Send for recovery or disposal in suitable receptacles.

Do not flush with water or aqueous cleansing agents

· 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

#### 7 Handling and storage

- · 7.1 Precautions for safe handling Avoid the formation of oil haze.
- · Information about fire and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from oxidizing agents.

(Contd. on page 4)

# Safety data sheet according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and GHS

#### Trade name: WOLF'S HEAD HYD/COMP OIL ND 30

(Contd. of page 3)

Store away from water.

- Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.
- · 7.3 Specific end use(s) No further relevant information available.

#### 8 Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- · 8.1 Control parameters
- Ingredients with limit values that require monitoring at the workplace:

#### 64742-54-7 Distillates (petroleum), hydrotreated heavy paraffinic

PEL (USA) 5 mg/m<sup>3</sup>

TLV (USA) Short-term value: 10 mg/m³

Long-term value: 5 mg/m<sup>3</sup>

- Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Avoid contact with the eyes.

· Respiratory protection:

Not necessary if room is well-ventilated.

Use suitable respiratory protective device in case of insufficient ventilation.

Protection of hands:



Protective gloves

Oil resistant gloves

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Eye protection:



Safety glasses

Goggles recommended during refilling

(Contd. on page 5)

# Safety data sheet according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and GHS

Trade name: WOLF'S HEAD HYD/COMP OIL ND 30

(Contd. of page 4)

9 Physical and chemical properties				
· General Information	· 9.1 Information on basic physical and chemical properties · General Information			
Appearance:	0.1			
Form: Colour:	Oily Amber coloured			
· Odour:	Characteristic			
· Odour threshold:	Not determined.			
· pH-value:	Not determined.			
Change in condition				
Melting point/Melting range:	Undetermined.			
Boiling point/Boiling range:	> 350°C (> 662 °F)			
· Flash point:	200°C (410 °F)			
· Flammability (solid, gaseous):	Not applicable.			
· Ignition temperature:				
Decomposition temperature:	Not determined.			
· Self-igniting:	Not determined.			
· Danger of explosion:	Product does not present an explosion hazard.			
· Explosion limits:				
Lower:	0,6 Vol %			
Upper:	7,0 Vol %			
· Vapour pressure:	Not determined.			
Density at 20°C:	0,9 g/cm³			
· Relative density	Not determined.			
Vapour density	Not determined.			
· Evaporation rate	Not determined.			
· Solubility in / Miscibility with				
water:	Not miscible or difficult to mix.			
· Partition coefficient (n-octanol/wat	er): Not determined.			
· Viscosity:				
Viscosity Index:	-2			
Kinematic at 40°C:	144,6 cSt (9,84 cSt @ 100°C)			
· 9.2 Other information	No further relevant information available.			

(Contd. on page 6)

# Safety data sheet according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and GHS

Trade name: WOLF'S HEAD HYD/COMP OIL ND 30

(Contd. of page 5)

#### 10 Stability and reactivity

- · 10.1 Reactivity
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- 10.3 Possibility of hazardous reactions Reacts with strong oxidizing agents.
- · 10.4 Conditions to avoid Store away from oxidizing agents.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products:

Carbon monoxide and carbon dioxide

Possible in traces.

Nitrogen oxides

Sulphur oxides (SOx)

## 11 Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity:
- LD/LC50 values relevant for classification:

#### 64742-54-7 Distillates (petroleum), hydrotreated heavy paraffinic

Oral LD50 >2000 mg/kg (rat)

Dermal LD50 >2000 mg/kg (rabbit)

- · Primary irritant effect:
- · on the skin: Slight irritant effect on skin and mucous membranes.
- on the eye: Slight irritant effect on eyes.
- · Sensitization: Sensitizing effect by skin contact is possible by prolonged exposure.
- · Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

The substance is not subject to classification according to the latest version of the EU lists.

## 12 Ecological information

- 12.1 Toxicity
- · Aquatic toxicity: The material is harmful to the environment.
- · 12.2 Persistence and degradability Not easily biodegradable
- · 12.3 Bioaccumulative potential May be accumulated in organism
- · 12.4 Mobility in soil No further relevant information available.
- · Additional ecological information:
- General notes:

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

(Contd. on page 7)

# Safety data sheet

# according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and GHS

#### Trade name: WOLF'S HEAD HYD/COMP OIL ND 30

(Contd. of page 6)

Danger to drinking water if even small quantities leak into the ground.

- · 12.5 Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

# 13 Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Can be reused after reprocessing.

Delivery of waste oil to officially authorized collectors only.

- Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

Transport information		
· 14.1 UN-Number · DOT, ADN, IMDG, IATA	N/A	
14.2 UN proper shipping name DOT, ADR, ADN, IMDG, IATA	N/A	
14.3 Transport hazard class(es)		
· DOT, ADR, ADN, IMDG, IATA · Class	N/A	
· 14.4 Packing group · DOT, ADR, IMDG, IATA	N/A	
14.5 Environmental hazards: Marine pollutant:	No	
14.6 Special precautions for user	Not applicable.	
14.7 Transport in bulk according to Anno MARPOL73/78 and the IBC Code	ex II of Not applicable.	
UN "Model Regulation":	-	

(Contd. on page 8)

# Safety data sheet

# according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and GHS

Trade name: WOLF'S HEAD HYD/COMP OIL ND 30

(Contd. of page 7)

#### 15 Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · United States (USA)
- ·SARA
- Section 355 (extremely hazardous substances):

Substance is not listed.

· Section 313 (Specific toxic chemical listings):

Substance is not listed.

TSCA (Toxic Substances Control Act):

Substance is listed.

- Proposition 65 (California):
- · Chemicals known to cause cancer:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

· Chemicals known to cause developmental toxicity:

Substance is not listed.

- · Carcinogenic Categories
- · EPA (Environmental Protection Agency)

Substance is not listed.

IARC (International Agency for Research on Cancer)

Substance is not listed.

TLV (Threshold Limit Value established by ACGIH)

Substance is not listed.

MAK (German Maximum Workplace Concentration)

Substance is not listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

Substance is not listed.

· OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

- · Canada
- Canadian Domestic Substances List (DSL)

Substance is listed.

· Canadian Ingredient Disclosure list (limit 0.1%)

Substance is not listed.

(Contd. on page 9)

# Safety data sheet according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and GHS

Trade name: WOLF'S HEAD HYD/COMP OIL ND 30

(Contd. of page 8)

Canadian Ingredient Disclosure list (limit 1%)

Substance is not listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labeling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists EINECS:

European Inventory of Existing Commercial Chemical Substances CAS:

Chemical Abstracts Service (division of the American Chemical Society) LC50:

Lethal concentration, 50 percent LD50: Lethal dose, 50 percent

· Sources

Revision: October 8, 2012

The manufacturer believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. No warranty of fitness, warranty of merchantability or any other warranty, expressed or implied, is made concerning the information provided herein. The information provided herein relates only to the specific product designated and may not be valid where such product is used in combination with any other materials or process. Further, since the conditions and methods of use of this product and of the information referred to herein are beyond the control of the manufacturer, the manufacturer expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information.

This document was authored and reviewed by the technical and scientific staff at ChemTel Inc. Descriptions, classifications and calculations are based upon data provided by manufacturer and augmented by published data in conjunction with expert analysis by degreed scientists.

SDS Prepared by:
ChemTel Inc.
1305 North Florida Avenue
Tampa, Florida USA 33602-2902
Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573
Website: www.chemtelinc.com



#### **Section 1- Chemical Product and Company Identification**

Xtreme Blue +32 Windshield Washer Fluid **Product Name:** 

Supplier: Camco Manufacturing, Inc.

> **121 Landmark Drive** Greensboro, NC 27409 1-800-334-2004

Clean Agent 30297 (Gallon)

**September 20, 2017** Date of Preparation/Revision: 1-800-535-5053 In case of Emergency:

# **Section 2- Hazards identification**

**Physical State:** Liquid. [CLEAR, BLUE, LIQUID WITH CHARACTERISTIC SWEET ODOR]

#### WARNING

**Product Use:** 

**Product Code:** 

#### **GHS Classifications**

Skin irritation (Category 3) Eye irritation (Category 2B)

#### **Hazard Statements**

H316 Causes mild skin irritation.

H320 Causes eve irritation.

#### **Precautionary statements**

P264 Wash hands thoroughly after handling

#### Response statements

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+313 If eye irritation persists get medical advice/attention

P332+313 If skin irritation occurs: Get medical advice/attention

#### Disposal

P501 Dispose of contents/container in accordance with local/regional/national regulations

#### **Potential Health Effects: Eyes**

Contact with the eyes can cause moderate irritation. Symptoms may include discomfort or pain and redness. Severe over exposure can result in swelling of the conjunctiva along with tissue damage which may lead to blindness.

#### **Potential Health Effects: Skin**

This product is irritating to the skin. Depending on the duration of contact, symptoms will include reddening, discomfort, irritation, and possible tissue damage. Repeated contact with this material may produce dermatitis.

#### **Potential Health Effects: Ingestion**

Ingestion of high doses may cause discomfort and irritation of the gastrointestinal tract

#### Potential Health Effects: Inhalation

This product is irritating to the respiratory system. Inhalation of vapors or mists of the product can cause sneezing, coughing and difficulty breathing. High aerosol concentrations may cause mild reversible irritation of the nose and throat as well as CNS depression

#### **Medical Conditions Aggravated by Exposure**

Pre-existing skin and eye conditions.

HMIS Ratings: Health: 1 Fire: 0 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard

See toxicological information (section 11

#### Section 3 - Composition, Information on Ingredients

**Name CAS Number % Volume** Alkylpolyglycoside C <sub>8-16</sub> 68515-73-1 / 110615-47-9 0.05 – 0.1%

#### **Component Information/Information on Non-Hazardous Components**

This product is considered to be non-hazardous under 29 CFR 1910.1200

#### **Section 4 - First Aid Measures**

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

**Eye contact** Immediately flush eyes with water for at least 15 minutes, while holding eyelids open.

Seek medical attention at once.

Skin contact For skin contact, wash immediately with soap and water. If irritation persists get medical

attention.

**Ingestion** If material is ingested, immediately contact a physician or poison control center. Do not

induce vomiting. Dilute by giving water. Keep warm and quiet. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to a victim

who is unconscious or is having convulsions.

**Inhalation** If inhaled, immediately remove the affected person to fresh air. If the affected person is

not breathing, apply artificial respiration. If irritation persists get medical attention.

**Notes to Physician** Provide general supportive measures and treat symptomatically.

#### <u>Section 5 - Fire-Fighting Measures</u>

FLASH POINT: N/A METHOD USED: N/A

FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: N/A UPPER: N/A

**General Fire Hazards** 

This product is an aqueous solution which will not burn. Non-Flammable

**Hazardous Combustion Products** 

Decomposition may yield carbon dioxide compounds and oxides of nitrogen.

**Extinguishing Media** 

Dry chemical, foam, carbon dioxide, water fog.

Fire Fighting Equipment/Instructions

Firefighters should wear full protective clothing including self contained breathing apparatus.

NFPA Ratings: Health: 1 Fire: 0 Reactivity: 0 Other: none

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

#### Section 6 - Accidental release measures

#### **Containment Procedures**

Stop the flow of material, if this is without risk. Wear appropriate protective equipment and clothing during clean-up. Contain the discharged material and dike the spilled material where

possible. Prevent entry into sewers, drains, underground or confined spaces, water intakes and waterways.

#### **Clean-Up Procedures**

Absorb spill with inert material such as: lime, polypads, or other suitable absorbent material. Shovel the absorbed material into appropriate container for disposal.

#### **Evacuation Procedures**

Isolate area. Keep unnecessary personnel away.

#### **Special Procedures**

Isolate exposure. Wear appropriate personal protective equipment. Follow all Local, State, Federal and Provincial regulations for disposal.

#### Section 7- Handling and Storage

#### **Handling Procedures**

Open container carefully, as needed to relieve any build up of pressure. Do not get this material in your eyes, on your skin, or on your clothing. Do not inhale vapors or mists of this product. Use this product with adequate ventilation. Wash thoroughly after handling.

#### **Storage Procedures**

Store in a cool, dry area. Do not freeze. Store away from direct sunlight and any sources of heat. Empty product containers may contain product residue. Do not reuse empty containers. Do not store this material in open or unlabeled containers.

#### **Section 8 - Exposure Controls / Personal Protection**

#### **Exposure Guidelines**

#### **A: General Product Information**

Keep formation of airborne mists to a minimum.

#### **B: Component Exposure Limits**

ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components.

#### **Engineering Controls**

Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product.

#### PERSONAL PROTECTIVE EQUIPMENT

#### Personal Protective Equipment: Eyes/Face

Wear chemical goggles and face shield.

#### **Personal Protective Equipment: Skin**

Wear impervious (neoprene) gloves, impervious apron.

#### **Personal Protective Equipment: Respiratory**

If ventilation is not sufficient to effectively prevent buildup of vapors or mists, appropriate approved NIOSH respiratory protection must be provided. Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2-1992). A written respiratory protection program, including provisions for medical certification, training, fit testing, exposure assessments, maintenance, inspection, cleaning, and convenient, sanitary storage must be implemented.

#### **Personal Protective Equipment: General**

Eye wash fountain and emergency showers are recommended. An emergency spill response will necessitate the use of more stringent personal protective equipment.

#### **Section 9 - Physical and Chemical Properties**

Appearance: Light Blue Transparent Liquid

Odor: Mild Fragrance

**Physical State:** Liquid pH: (@59° F / 15° C) 6.0 to 8.0 Vapor pressure: Not Applicable Vapor density: Not Applicable >212°F (>100° C) **Boiling Point: Melting Point:** Not Determined Solubility: Completely Specific Gravity: (@70° F / 21° C) 1.000 **Freeze Point:** 32° F (0° C) Flash Point (PMCC): Not Flammable **Auto-ignition Temperature:** Not Flammable Flammable Limits in Air by Volume: Not Applicable

Flammable Limits in Air by Volume: Not Applicable Evaporation Rate: Similar to Water Decomposition Temperature: Not Available

Viscosity (cps): < 20cps

**Physical Properties: Additional Information** 

No additional information available

# Section 10 - Stability and Reactivity

#### **Chemical Stability**

This is a stable material.

#### **Chemical Stability: Conditions to Avoid**

Avoid contact with extreme heat and incompatible materials.

#### Incompatibility

This product is incompatible with strong acids, bases and oxidizing agents.

#### **Hazardous Decomposition**

Decomposition may yield carbon dioxide, carbon monoxide and oxides of nitrogen.

#### **Hazardous Polymerization**

Will not occur.

#### **Section 11 - Toxicological Information**

#### **Acute and Chronic Toxicity**

#### **General Product Information**

Any toxicological information included in this section is based upon data associated with the components or an analogous product.

#### Carcinogenicity

#### **A: General Product Information**

No carcinogenicity data available for this product.

#### **B: Component Carcinogenicity**

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

#### **Chronic Toxicity**

Accute oral toxicity: LD50.2000mg/kg body weight

#### **Epidemiology**

No epidemiological data is available for this product. Classified as slightly irritating.

#### **Neurotoxicity**

No data available for this product.

#### Mutagenicity

This product is not mutagenic.

#### **Teratogenicity**

No data available for this product.

#### Other Toxicological Information

No additional information available.

#### **Section 12 - Ecological Information**

#### **Ecotoxicity**

#### **A: General Product Information**

In high concentrations, this product may be harmful to both terrestrial and aquatic plant or animal life.

#### **B: Component Analysis - Ecotoxicity - Aquatic Toxicity**

Acite fish toxicity: LC50>10- <= pure product

#### **Environmental Fate**

Readily and rapidly degradable.

# **Section 13 - Disposal Considerations**

#### **US EPA Waste Number & Descriptions**

#### **A: General Product Information**

You must test your waste using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.

#### **B: Component Waste Numbers**

No EPA Waste Numbers are applicable for this product's components.

#### **Disposal Instructions**

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

# **Section 14 - Transport information**

#### **US DOT Information**

This material is not hazardous as defined by 49CFR 172.101 by the US Department of Transportation.

#### **IMDG**

#### Refer to Current IMDG regulations for full shipping description requirements

IATA

This material is not prepared or packaged for air transportation

International shipping requirements must be determined by the party offering the material for transportation

#### **Section 15 - Regulatory Information**

#### U.S. Federal regulations

#### **General Product Information**

Product is biodegradable. No additional information available.

United States inventory (TSCA 8b): This material is listed or exempted.

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: No products were found

Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: No products were found.

Clean Air Act (CAA) 112 accidental release prevention: No products were found. Clean Air Act (CAA) 112 regulated flammable substances: No products were found.

Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

#### State regulations

Connecticut Carcinogen Reporting: This material is not listed.

Connecticut Hazardous Material Survey: This material is not listed.

Florida substances: This material is not listed.

Illinois Chemical Safety Act: This material is not listed.

Illinois Toxic Substances Disclosure to Employee Act: This material is not listed.

Louisiana Reporting: This material is not listed.
Louisiana Spill: This material is not listed.
Massachusetts Spill: This material is not listed.
Massachusetts Substances: This material is listed.
Michigan Critical Material: This material is not listed.

Minnesota Hazardous Substances: This material is not listed. New Jersey Hazardous Substances: This material is listed.

New Jersey Spill: This material is not listed.

New Jersey Toxic Catastrophe Prevention Act: This material is not listed.

New York Acutely Hazardous Substances: This material is not listed.

New York Toxic Chemical Release Reporting: This material is not listed.

Pennsylvania RTK Hazardous Substances: This material is listed.

Rhode Island Hazardous Substances: This material is not listed.

California Prop 65 Warning: This material is not listed

**Additional Regulatory Information** 

**A: General Product Information** 

All components are on the U.S. EPA TSCA Inventory List.

#### **Section 16 - Other information**

NFPA CODES: Health 1

Flammability 0 Reactivity 0

Note - NFPA ratings are based on a 0-4 rating scale with 0 representing minimal hazards or risks and 4 representing extreme hazards or risks.

Date of Preparation/Revision: September 20, 2017 (Supersedes all previous MSDS and SDS)

#### **DISCLAIMER**

To the best of our knowledge, the information contained herein is accurate, obtained from sources believed by Camco Manufacturing, Inc., to be accurate. However, the information is provided without any representation or warranty, expressed or implied, regarding its accuracy or correctness.

The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and

# **SAFETY DATA SHEET**

7 of 7

# Xtreme Blue +32 Windshield Washer Fluid

expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. It is the responsibility of the user to determine the safety, toxicity and suitability of their own use, handling and disposal of this product.



# ZEP CHERRY BOMB HC 4CS 48OZ

Version 5.1 Revision Date 02/27/2018 Print Date 12/10/2021

#### **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Material name : ZEP CHERRY BOMB HC\_4CS 48OZ

Material number : ZUCBHC484

Manufacturer or supplier's details

Company : Zep Inc.

Address : 350 Joe Frank Harris Parkway, SE

Emerson, GA 30137

Telephone : 404-352-1680

#### **Emergency telephone numbers**

For SDS Information : Compliance Services 1-877-428-9937

For a Medical Emergency : 877-541-2016 Toll Free - All Calls Recorded
For a Transportation : CHEMTREC: 800-424-9300 - All Calls Recorded.

**Emergency** In the District of Columbia 202-483-7616

Recommended use of the chemical and restrictions on use

Recommended use : Hand Care

#### **SECTION 2. HAZARDS IDENTIFICATION**

#### **Emergency Overview**

Appearance	viscous, liquid	
Colour	red	
Odour	like fruit	

#### **GHS Classification**

Not a hazardous substance or mixture.

#### **GHS** label elements

Not a hazardous substance or mixture.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### **Hazardous components**

Chemical name	CAS-No.	Concentration [%]
Distillates (petroleum), hydrotreated light	64742-47-8	>= 20 - < 30
4-Nonylphenol branched, ethoxylated	127087-87-0	>= 10 - < 20
2-aminoethanol Tallate	68440-25-5	>= 1 - < 5
White mineral oil (petroleum)	8042-47-5	>= 1 - < 5
Solvent naphtha (petroleum), heavy aliph.	64742-96-7	>= 1 - < 5
Poly(oxy-1,2-ethanediyl), .alphahydroomega	25322-68-3	>= 1 - < 5

#### SAFETY DATA SHEET



# **ZEP CHERRY BOMB HC 4CS 48OZ**

Version 5.1 Revision Date 02/27/2018 Print Date 12/10/2021

hydroxy-Ethane-1,2-diol, ethoxylated

The exact percentages of disclosed substances are withheld as trade secrets.

#### **SECTION 4. FIRST AID MEASURES**

General advice : Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact : This product is formulated for use on skin but should always

be immediately washed off with plenty of water. Discontinue use if irritation and redness develop. If conditions persist for

more than 72 hours, consult a physician.

In case of eye contact : Rinse immediately with plenty of water for at least 15 minutes.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

DO NOT induce vomiting unless directed to do so by a

physician or poison control center.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Most important symptoms and effects, both acute and

delayed

: Effects may be delayed, symptoms may include minor eye or

skin irritation.

Overexposure may cause mild eye or skin irritation.

Notes to physician : Treat symptomatically. Symptoms may be delayed.

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Alcohol-resistant foam

Carbon dioxide (CO2)

Dry chemical Water spray jet

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during

firefighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion

products

Carbon dioxide (CO2)

Carbon monoxide

Smoke

Specific extinguishing : Use extinguishing measures that are appropriate to local



# **ZEP CHERRY BOMB HC 4CS 48OZ**

Version 5.1 Revision Date 02/27/2018 Print Date 12/10/2021

methods circumstances and the surrounding environment.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment

for firefighters

: Wear self-contained breathing apparatus for firefighting if

necessary.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Material can create slippery conditions.

Use non-slip safety shoes in areas where spills or leaks can

occur.

Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up

: Wipe up with absorbent material (e.g. cloth, fleece). Keep in suitable, closed containers for disposal.

#### **SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : Avoid contact with eyes.

For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Dispose of rinse water in accordance with local and national

regulations.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated

place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage.

Materials to avoid : Oxidizing agents

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Distillates (petroleum), hydrotreated light	64742-47-8	TWA	500 ppm 2,000 mg/m3	OSHA Z-1
		TWA	400 ppm	OSHA P0



# ZEP CHERRY BOMB HC\_4CS 48OZ

Version 5.1 Revision Date 02/27/2018 Print Date 12/10/2021

			1,600 mg/m3	
		TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Mist)	5 mg/m3	OSHA P0
		TWA (Mist)	5 mg/m3	NIOSH REL
		ST (Mist)	10 mg/m3	NIOSH REL
		PEL	5 mg/m3	CAL PEL
		(particulate)		
White mineral oil (petroleum)	8042-47-5	TWA (Mist)	5 mg/m3	
		STEL (Mist)	10 mg/m3	
		TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA	5 mg/m3	ACGIH
		(Inhalable		
		fraction)		
		TWA (Mist)	5 mg/m3	OSHA P0
		TWA (Mist)	5 mg/m3	NIOSH REL
		ST (Mist)	10 mg/m3	NIOSH REL
		PEL	5 mg/m3	CAL PEL
		(particulate)		
Poly(oxy-1,2-ethanediyl),	25322-68-3	TWA	10 mg/m3	US WEEL
.alphahydroomega		(aerosol)		
hydroxy-Ethane-1,2-diol,				
ethoxylated				
			10 mg/m3	US WEEL

**Engineering measures** : effective ventilation in all processing areas

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally

required.

Hand protection

Remarks : No special protection is required.

Eye protection : Eye protection is not required while washing with this product.

In the workplace, the use of safety glasses is recommended to

avoid eye exposure during the handling of containers or

during spill clean-up.

Skin and body protection : No special protection is required.

Hygiene measures : When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : viscous, liquid

Colour : red
Odour : like fruit

#### SAFETY DATA SHEET



# ZEP CHERRY BOMB HC 4CS 48OZ

Version 5.1 Revision Date 02/27/2018 Print Date 12/10/2021

Odour Threshold : No data available

pH : 7-8

Melting point/freezing point : No data available Boiling point : No data available

Flash point : > 93.3 °C

Method: TCC

Evaporation rate : No data available
Upper explosion limit : No data available
Lower explosion limit : No data available
Vapour pressure : No data available
Relative vapour density : No data available

Density : 0.96 g/cm3

Solubility(ies)

Water solubility : slightly soluble Solubility in other solvents : not determined

Partition coefficient: n-

octanol/water

: No data available

Auto-ignition temperature : not determined

Thermal decomposition : No data available

Viscosity

Viscosity, kinematic : > 25 mm2/s (40 °C)

#### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : Stable

Chemical stability : Stable under normal conditions.

Possibility of hazardous

reactions

: No decomposition if stored and applied as directed.

Conditions to avoid : No data available

Incompatible materials : Oxidizing agents

Hazardous decomposition

products

: Carbon oxides

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

#### **Potential Health Effects**



# **ZEP CHERRY BOMB HC 4CS 48OZ**

Version 5.1 Revision Date 02/27/2018 Print Date 12/10/2021

Aggravated Medical

Condition

: None known.

Symptoms of Overexposure

: Effects may be delayed, symptoms may include minor eye or

skin irritation.

Carcinogenicity:

IARC No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

ACGIH No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by ACGIH.

OSHA No component of this product present at levels greater than or

equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

#### Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg

Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : > 5,000 mg/kg

Method: Calculation method

#### Components:

Distillates (petroleum), hydrotreated light:

Acute oral toxicity : LD50 Rat: > 5,000 mg/kg

Acute inhalation toxicity : LC50 Rat: > 4.6 mg/l

Exposure time: 6 h

Acute dermal toxicity : LD50 Rat: > 2,000 mg/kg

4-Nonylphenol branched, ethoxylated:

Acute oral toxicity : LD50 Oral Rat: 16,000 mg/kg

Acute dermal toxicity : LD50 Rabbit: 2,573 mg/kg

#### Skin corrosion/irritation

**Product:** 

Result: No skin irritation

#### Serious eye damage/eye irritation

#### **Product:**

#### SAFETY DATA SHEET



# ZEP CHERRY BOMB HC\_4CS 48OZ

Revision Date 02/27/2018 Version 5.1 Print Date 12/10/2021

Result: No eye irritation

#### Respiratory or skin sensitisation

No data available

#### Germ cell mutagenicity

No data available

#### Carcinogenicity

No data available

#### Reproductive toxicity

No data available

#### STOT - single exposure

No data available

#### STOT - repeated exposure

No data available

#### **Aspiration toxicity**

No data available

#### **Further information**

#### **Product:**

Remarks: No data available

#### **Components:**

Distillates (petroleum), hydrotreated light:

Remarks: No data available

#### **SECTION 12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

No data available

#### Persistence and degradability

No data available

#### **Bioaccumulative potential**

#### Product:

octanol/water

Partition coefficient: n- : Remarks: No data available

#### Mobility in soil

No data available

#### Other adverse effects



# **ZEP CHERRY BOMB HC 4CS 48OZ**

Version 5.1 Revision Date 02/27/2018 Print Date 12/10/2021

No data available

**Product:** 

Regulation 40 CFR Protection of Environment; Part 82 Protection of

Stratospheric Ozone - CAA Section 602 Class I

Substances

Remarks This product neither contains, nor was manufactured

with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A

+ B).

Additional ecological

information

: No data available

Components:

Distillates (petroleum), hydrotreated light:

Additional ecological

information

: No data available

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal methods

Waste from residues : The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Dispose of in accordance with local regulations.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

#### **SECTION 14. TRANSPORT INFORMATION**

Transportation Regulation: 49 CFR (USA):

NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

Transportation Regulation: IMDG (Vessel):

NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

Transportation Regulation: IATA (Cargo Air):

NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

Transportation Regulation: IATA (Passenger Air):

NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

Transportation Regulation: TDG (Canada):

#### SAFETY DATA SHEET



# **ZEP CHERRY BOMB HC 4CS 48OZ**

Version 5.1 Revision Date 02/27/2018 Print Date 12/10/2021

#### NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

The product as delivered to the customer conforms to packaging requirements for shipment by road under US Department of Transportation (DOT) regulations. Additional transportation classifications noted above are for reference only, and not a certification or warranty of the suitability of the packaging for shipment under these alternative transport regulations.

#### **SECTION 15. REGULATORY INFORMATION**

TSCA list : No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification

requirements.

EPCRA - Emergency Planning and Community Right-to-Know Act

**CERCLA Reportable Quantity** 

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 302 : The following components are subject to reporting levels

established by SARA Title III, Section 302:

Pumice 1332-09-8 2.59 %

No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop. 65

This product does not contain any chemicals known to State of

California to cause cancer, birth defects, or any other

reproductive harm.

The components of this product are reported in the following inventories:

TSCA On TSCA Inventory

DSL All components of this product are on the Canadian DSL

For information on the country notification status for other regions please contact the manufacturer's regulatory group.



# **ZEP CHERRY BOMB HC 4CS 48OZ**

Version 5.1 Revision Date 02/27/2018 Print Date 12/10/2021

#### **Inventory Acronym and Validity Area Legend:**

TSCA (USA), DSL (Canada), NDSL (Canada)

#### **SECTION 16. OTHER INFORMATION**

#### **Further information**

# Flammability Flammability Instability

Special hazard.

#### HMIS III:

HEALTH	0
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High

4 = Extreme, \* = Chronic

#### **OSHA - GHS Label Information:**

Not a hazardous substance or mixture.

Version:	5.1
Revision Date:	02/27/2018
Print Date:	12/10/2021

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. Users should make their own investigations to determine the suitability and applicability of the information for their particular purposes. This SDS has been prepared by the Compliance Services organization supporting this manufacturer, supplier or distributor.

Zep Inc. markets products under well recognized and established brand names such as Zep®, Zep Commercial®,Zep Professional®, Enforcer®, National Chemical™, Selig™, Misty®, Next Dimension™, Petro®, i-Chem®, TimeMist®, TimeWick™, MicrobeMax®, Country Vet®, Konk®, Original Bike Spirits®, Blue Coral®, Black Magic®, Rain-X®, Niagara National™, FC Forward Chemicals®,Rexodan®, Mykal™, and a number of private labeled brands.