

Material Safety Data Sheet

Material Name: Lubriguard Tractor/Hydraulic Fluid

ID: LBGD-013

*** Section 1 - Chemical Product and Company Identification ***

Part Number: 70 2113 (5 Gal); 70 2114 (55 Gal); 70 2115 (bulk)

Chemical Name: NA

Product Use: Hydraulic Oil

Manufacturer Information

Warren Oil

Phone:

Emergency # 800-424-9300 CHEMTREC

General Comments

CHEMTREC Emergency telephone number is to be used in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals. All non-emergency questions should be directed to customer service.

*** Section 2 - Composition / Information on Ingredients ***

CAS #	Component	Percent
68783-96-0	Sulfonic Acids, Petroleum, Calcium Salts, Overbased	1-2
68649-42-3	Zinc Alkyldithiophosphate	1-2
64742-65-0	Petroleum Distillates, Solvent Dewaxed Heavy Paraffinic	Blend
64742-54-7	Petroleum Distillates, Hydrotreated Heavy Paraffinic	Blend
64742-52-5	Petroleum Distillates, Hydrotreated Heavy Naphthenic	Blend

Component Information/Information on Non-Hazardous Components

The maximum percentage of the petroleum distillate and/or residual oil blend contained in this product is: 98%

All mineral oils used in this product have been severely hydrotreated and/or solvent refined. Exact composition of this product will vary with availability of materials. All ingredients listed above may not always be included in final product. This product is considered not hazardous under 29 CFR 1910.1200 (Hazard Communication).

*** Section 3 - Hazards Identification ***

Emergency Overview

Product is a non-flammable petroleum distillate mixture. Liquid and vapor may be irritating to the eyes, skin and respiratory system. Irritating and toxic vapors may be released upon combustion of product. Extinguish fire with carbon dioxide, dry chemical, foam or water fog.

Hazard Statements

No information is available.

Potential Health Effects: Eyes

This product may cause irritation to the eyes.

Potential Health Effects: Skin

This product may cause irritation to the skin. Prolonged and/or repeated skin contact with this product may cause irritation / dermatitis.

Potential Health Effects: Ingestion

Ingestion of this product may cause nausea, vomiting and diarrhea. Small amounts of this product, if aspirated into the lungs, may cause mild to severe pulmonary injury, possibly death.

Potential Health Effects: Inhalation

Low vapor pressure makes inhalation unlikely at standard temperatures and pressures. Inhalation of oil mists or fumes can cause irritation of the nose, throat and upper respiratory tract. Repeated and prolonged overexposure to oil mists may result in droplet deposition, oil granuloma formation, inflammation and increased incidence of infection. If this product is heated over 70 C (155 F), especially in the presence of water, hydrogen sulfide may be released. Hydrogen sulfide is irritating to the eyes and respiratory system. Continued overexposure may cause respiratory collapse, coma and death without necessarily any warning odor being sensed.

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HMIS Ratings: Health: 1 Fire: 1 Reactivity: 0 Pers. Prot.: Safety glasses, gloves

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

*** Section 4 - First Aid Measures ***

First Aid: Eyes

Flush eyes with large amounts of water for 15 minutes. Get medical attention if eye irritation develops or persists.

First Aid: Skin

For skin contact, wash immediately with soap and water. Remove contaminated clothing. Get medical attention if skin disorder develops. Launder contaminated clothing before reuse.

First Aid: Ingestion

If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting.

First Aid: Inhalation

If affected, remove individual to fresh air. If the affected person is not breathing, apply artificial respiration. Get medical attention if symptoms persist.

First Aid: Notes to Physician

Pulmonary aspiration hazard if swallowed; treat symptomatically.

*** Section 5 - Fire Fighting Measures ***

Flash Point: 380 F (193 C)

Upper Flammable Limit (UFL): Not Available

Auto Ignition: Not Available

Rate of Burning: Not Available

General Fire Hazards

Product is a non-flammable petroleum distillate mixture. Liquid can burn upon heating to temperatures at or above the flash point. If product is heated above its flash point it will release flammable vapors which can burn in the open or be explosive in confined spaces if exposed to ignition source. Mists or sprays may be flammable below its normal flash point.

Hazardous Combustion Products

Hazardous combustion product include fumes, smoke, hydrogen sulfide, alkyl mercaptans, sulfides, oxides of sulfur, oxides of phosphorus, oxides of zinc, oxides of calcium, aldehydes, carbon monoxide, carbon dioxide and other low molecular weight hydrocarbons.

Extinguishing Media

Dry chemical, foam, carbon dioxide, water fog. Use water to cool fire-exposed containers and to protect personnel. Direct water spray or foam may cause frothing and spattering. If a leak or spill has not ignited, use water spray to disperse vapors and to flush spills away from exposure.

Fire Fighting Equipment/Instructions

Firefighters should wear full-face, self contained breathing apparatus and impervious protective clothing. Firefighters should avoid inhaling any combustion products.

NFPA Ratings: Health: 1 Fire: 1 Reactivity: 0 Other:

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.

Clean-Up Procedures

Absorb with non-flammable suitable absorbent such as sand or earth. Scoop up used absorbent into drums or other appropriate container.

Evacuation Procedures

Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

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Special Procedures

Eliminate all ignition sources including flares, flames and electrical sparks. Wear appropriate protective equipment and clothing during clean-up. Surfaces may become slippery after spillage. Do not allow the spilled product to enter public drainage systems or open water courses.

*** Section 7 - Handling and Storage ***

Handling Procedures

Avoid getting this material into contact with your eyes. Avoid prolonged or repeated breathing of this material. Avoid prolonged or repeated skin contact with this material. Use this product with adequate ventilation. Avoid the generation of oil mists. Wash thoroughly after handling.

Storage Procedures

Do not store this material in open or unlabeled containers. Do not store near heat, sparks, open flame or strong oxidizing agents. "Empty" containers retain product residue (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.

*** Section 8 - Exposure Controls / Personal Protection ***

Exposure Guidelines

A: General Product Information

If oil mists are generated, observe the OSHA exposure limit of 5 mg/m³; short term exposure limit of 10 mg/m³. The following are recommended exposure limits for hydrogen sulfide: OSHA PEL 8H TWA 10 ppm; 14 mg/m³, Ceiling 20 ppm and ACGIH 8H TWA 10 ppm; 14 mg/m³.

B: Component Exposure Limits

No information is available.

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) hydrogen sulfide vapors may be released, ventilation should be sufficient to keep hydrogen sulfide levels below recommended exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

Wear safety glasses with side shields. Wear chemical goggles or faceshield if splash or mist occurs.

Personal Protective Equipment: Skin

Use impervious gloves for prolonged contact. Wear oil-impervious garments if contact is unavoidable.

Personal Protective Equipment: Respiratory

If mist is generated (heating, spraying) and engineering controls are not sufficient, wear approved organic vapor respirator suitable for oil mist.

Personal Protective Equipment: General

Use good hygiene when handling petroleum product. Eye wash fountains are recommended.

*** Section 9 - Physical & Chemical Properties ***

Appearance:	Clear to light yellow	Odor:	Petroleum
Physical State:	Liquid	pH:	Not available
Vapor Pressure:	Not available	Vapor Density:	Heavier than air
Boiling Point:	Not available	Melting Point:	Not applicable
Solubility (H₂O):	Negligible	Specific Gravity:	0.91-0.94
Freezing Point:	Not applicable	Viscosity:	64.4-74.9 cSt @ 40 C; 7.27-7.60 cSt @ 100 C
Percent Volatile:	Nil		

Physical Properties: Additional Information

Pour Point: -30 F; -34 C

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*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability

Stable

Chemical Stability: Conditions to Avoid

Avoid formation of mists.

Incompatibility

Strong oxidizing agents (peroxides, chlorine, strong acids).

Hazardous Decomposition

Decomposition products may include hydrogen sulfide, alkyl mercaptans, sulfides, oxides of sulfur, oxides of phosphorus, oxides of zinc, oxides of calcium, aldehydes, carbon monoxide, carbon dioxide and other low molecular weight hydrocarbons.

Hazardous Polymerization

Hazardous polymerization will not occur.

*** Section 11 - Toxicological Information ***

Acute Toxicity

A: General Product Information

No data available on the product as a whole. Based on similar materials, this product is expected to have a low order of acute oral and dermal toxicity, but minute amounts aspirated into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possibly death.

B: Component Analysis - LD50

Petroleum Distillates, Hydrotreated Heavy Paraffinic (64742-54-7)

RTECS: PY8035500

Oral LD50 Rat: >15 gm/kg

Dermal LD50 Rabbit: >5 gm/kg

RTECS: PY8035501

Oral LD50 Rat: >15 gm/kg

Dermal LD50 Rabbit: >5 gm/kg

Carcinogenicity

A: General Product Information

No data available on the product as a whole.

B: Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

Epidemiology

No data available for product.

Neurotoxicity

No data available on this product as a whole.

Mutagenicity

No data available on this product as a whole.

Teratogenicity

No data available for this product as a whole.

Other Toxicological Information

The product contains a blend of petroleum distillates and/or residual oils, all of which have been solvent refined or severely hydrotreated. The petroleum distillate and/or residual oil blend consists of one or more of the components identified by CAS Number in Section 2. Since these components vary with availability of materials their percentage is noted as "blend".

*** Section 12 - Ecological Information ***

Ecotoxicity

No information is available on ecotoxicity of this product.

Environmental Fate

No information is available. Keep product out of sewers and waterways.

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*** Section 13 - Disposal Considerations ***

US EPA Waste Number & Descriptions

A: General Product Information

Product as shipped does not meet the definition or characteristics of a hazardous waste.

B: Component Waste Numbers

No information is available.

Disposal Instructions

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations. Material should be recycled if possible.

*** Section 14 - Transportation Information ***

US DOT Information

Shipping Name: Not regulated as a hazardous material

Hazard Class: Not classified

UN/NA #: Not classified

Packing Group: Not classified

Required Label(s): None

Additional Info.: None

International Transportation Regulations

Not regulated as dangerous goods.

*** Section 15 - Regulatory Information ***

US Federal Regulations

A: General Product Information

This product may be classified as an oil under Section 311 of the Clean Water Act, and under the Oil Pollution Act.

Discharges of spills into or leading to surface waters that cause sheen must be reported to the National Response Center. (1-800-424-8802) All components of this product are listed on the U.S. EPA TSCA Inventory.

B: Component Analysis

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

State Regulations

A: General Product Information

This product may contain the following chemical(s) known to the state of California to cause cancer and/or birth defects: < 1 ppm Benzene (71-43-2), < 1 ppm Cadmium (7440-43-9), < 1 ppm Lead (7439-92-1) and < 1 ppm Arsenic (7440-38-2).

B: Component Analysis - State

No information is available.

Other Regulations

A: General Product Information

No information available for the product.

B: Component Analysis - Inventory

Component	CAS #	TSCA	DSL	EINECS
Zinc Alkyldithiophosphate	68649-42-3	Yes	Yes	Yes
Sulfonic Acids, Petroleum, Calcium Salts, Overbased	68783-96-0	Yes	Yes	Yes
Petroleum Distillates, Solvent Dewaxed Heavy Paraffinic	64742-65-0	Yes	Yes	Yes
Petroleum Distillates, Hydrotreated Heavy Naphthenic	64742-52-5	Yes	Yes	Yes
Petroleum Distillates, Hydrotreated Heavy Paraffinic	64742-54-7	Yes	Yes	Yes

C: Component Analysis - WHMIS IDL

No information is available.

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*** Section 16 - Other Information ***
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Other Information

This information is, to the best of **Warren Oil's** knowledge and belief, accurate and reliable. However, no representation, warranty, or guarantee is made to its accuracy, reliability, or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.

Key/Legend

N = No; Y = Yes; ppm - parts per million; mg/m³ = milligrams per cubic meter of air; ACGIH = American Conference of Governmental Industrial Hygienists; OSHA = Occupational Safety and Health Administration; TLV = Threshold Limit Value; NIOSH = National Institute of Occupational Safety and Health; NTP = National Toxicology Program; IARC = International Agency for Research on Cancer; EPA = Environmental Protection Agency.

MSDS History

Preparation Information: New MSDS 04/18/1997. Revision 2.0000: 11/24/1997.

Revision 2.0000: Section 2 was revised to indicate that the product contains a "blend" of petroleum distillates. Section 11 revised to indicate the nature of the product blend.

Contact:

Contact Phone:

This is the end of MSDS # LBGD-013