

Material Safety Data Sheet

Material Name: Lubriguard Multi-Purpose Lithium EP 2 Grease

ID: LBGD-012

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

Part Number: 70 2610 (10/14 oz); 70 2616 (35 lbs); 70 2618 (120 lbs); 70 2619 (400 lbs)

Manufacturer's Part Number: 3-02-11004; 3-02-11005

Chemical Name: None

Product Use: Grease

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
64754-95-6	Castor Oil, Hydrogenated, Lithium Salt	5-20
Proprietary	Organic Zinc Additive	1-5
64742-65-0	Petroleum Distillates, Solvent Dewaxed Heavy Paraffinic	Blend
64742-62-7	Residual Oils (petroleum), Solvent Dewaxed	Blend
64742-52-5	Petroleum Distillates, Hydrotreated Heavy Naphthenic	Blend
64741-88-4	Petroleum Distillates, Solvent-refined Heavy Paraffinic	Blend

Component Related Regulatory Information

This product may be regulated, have exposure limits or other information identified as the following: Zinc compounds.

Component Information/Information on Non-Hazardous Components

The maximum percentage of the petroleum distillate and/or residual oil blend contained in this product is: 94%

This product has been reviewed using the criteria specified in 29 CFR 1910.1200 (Hazard Communication Standard).

*** Section 3 - Hazards Identification ***

Emergency Overview

Product is a dark amber grease. This product may be irritating to the respiratory system and skin. Use dry chemical, carbon dioxide or foam to extinguish fire. Toxic fumes may be released in case of fire. High pressure skin injection of this material may cause serious injury.

Hazard Statements

No information is available.

Potential Health Effects: Eyes

This product is irritating to the eyes.

Potential Health Effects: Skin

Prolonged and/or repeated skin contact with this product may cause irritation / dermatitis. If material is injected beneath the skin, tissue damage may result.

Potential Health Effects: Ingestion

Ingestion can cause gastrointestinal irritation, 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

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.

HMIS Ratings: Health: 1 Fire: 1 Reactivity: 0 Pers. Prot.: gloves, chemical goggles, respirator if necessary

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

Material Safety Data Sheet

Material Name: Lubriguard Multi-Purpose Lithium EP 2 Grease

ID: LBGD-012

*** 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

Remove contaminated clothing. Wash affected area with mild soap and water. Get medical attention if skin disorder develops. Launder contaminated clothing before reuse. If product is injected under the skin, get medical attention immediately. Do not wait for symptoms to develop.

First Aid: Ingestion

Do not induce vomiting. Call your local poison control center or get medical attention.

First Aid: Inhalation

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

First Aid: Notes to Physician

HIGH PRESSURE SKIN INJECTION: Physician must be familiar with local procedures for treatment of this type of wound; incision, irrigation, removal of all necrotic tissue and open wound dressing. Pulmonary aspiration hazard if swallowed; treat symptomatically.

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

Flash Point: Not applicable

Method Used: Not applicable

Upper Flammable Limit (UFL): Not available

Lower Flammable Limit (LFL): Not available

Auto Ignition: Not available

Flammability Classification: Not applicable

Rate of Burning: Not available

General Fire Hazards

Product is a non-flammable grease. It will not flash spontaneously. Product may ignite if exposed to open flame. Product may release toxic vapors or fumes upon heating.

Hazardous Combustion Products

Incomplete combustion can yield carbon (smoke), carbon monoxide, carbon dioxide, various hydrocarbons, hydrogen sulfide, oxides of zinc and evolve other toxic gases, vapors and solid residue.

Extinguishing Media

Dry chemical, foam, carbon dioxide. Water may be an ineffective extinguishing medium. Water stream may spread fire. Use water to cool fire-exposed containers and to protect personnel.

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

Contain the discharged material.

Clean-Up Procedures

Scrape up the spilled material. Shovel the material into waste container.

Evacuation Procedures

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

Special Procedures

Wear appropriate protective equipment and clothing during clean-up. Surfaces may become slippery after spillage. Remove soiled clothing and laundry before reuse. Avoid skin contact and inhalation of vapors during disposal of spills.

Material Safety Data Sheet

Material Name: Lubriguard Multi-Purpose Lithium EP 2 Grease

ID: LBGD-012

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

Handling Procedures

Avoid the generation of oil mists. Avoid breathing fumes if this product is used at high temperatures. Use this product with adequate ventilation. Avoid getting this material into contact with your skin and eyes. Wash hands after handling and before eating. Launder work clothes frequently.

Storage Procedures

Keep the container tightly closed and in a cool, well-ventilated place. Do not store this material in open or unlabeled containers. Store away from strong oxidizers. Store at temperatures below 120 F (50 C) to preserve for intended use.

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

Exposure Guidelines

A: General Product Information

Exposure limits recommended by manufacturer as oil mist: TWA = 5 mg/m³; STEL = 10 mg/m³.

B: Component Exposure Limits

No information is available.

Engineering Controls

Use in a well-ventilated area. Additional area ventilation or local exhaust may be required to maintain air concentrations below recommended exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

Wear safety glasses with side shields.

Personal Protective Equipment: Skin

Wear resistant gloves such as neoprene or nitrile. Use of impervious apron and boots are recommended.

Personal Protective Equipment: Respiratory

For concentrations up to 25 mg/m³, half-mask organic vapor respirator. Up to 50 mg/m³, full-face organic vapor respirator or full-face self-contained respirator. For concentrations greater than 50 mg/m³, fire fighting or unknown concentration, use self-contained breathing apparatus with positive pressure mode.

Personal Protective Equipment: General

Use good hygiene when handling petroleum product.

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

Appearance: Dark Amber	Odor: Not available
Physical State: Grease	pH: Not applicable
Vapor Pressure: Not available	Vapor Density: >1 (Air = 1)
Boiling Point: Not applicable	Melting Point: Not applicable
Solubility (H₂O): Not available	Specific Gravity: 0.90
Freezing Point: Not available	Evaporation Rate: Slower than n-Butyl acetate

Physical Properties: Additional Information

None

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

Chemical Stability

Stable

Chemical Stability: Conditions to Avoid

Avoid excessive heat, formation of mists. Avoid contact with strong oxidizers.

Incompatibility

This product may react with strong oxidizing agents.

Hazardous Decomposition

Incomplete combustion can yield carbon (smoke), carbon monoxide, carbon dioxide, various hydrocarbons, hydrogen sulfide, oxides of zinc and evolve other toxic gases, vapors and solid residue.

Hazardous Polymerization

Hazardous polymerization will not occur.

Material Safety Data Sheet

Material Name: Lubriguard Multi-Purpose Lithium EP 2 Grease

ID: LBGD-012

*** Section 11 - Toxicological Information ***

Acute Toxicity

A: General Product Information

If skin injection occurs, tissue necrosis may occur. Organic zinc additive may cause severe eye irritation including a risk of irreversible damage.

B: Component Analysis - LD50

No information is available.

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.

Other Toxicological Information

Persons with skin or respiratory conditions may be more sensitive to product. 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. Keep product out of sewers and waterways.

Environmental Fate

No information is available.

*** 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

All wastes must be handled in accordance with local, state and federal regulations.

*** Section 14 - Transportation Information ***

US DOT Information

Shipping Name: Not regulated as a hazardous material

Hazard Class: None

UN/NA #: None

Packing Group: None

Required Label(s): None

Additional Info.: None

International Transportation Regulations

Not regulated as dangerous goods.

Material Safety Data Sheet

Material Name: Lubriguard Multi-Purpose Lithium EP 2 Grease

ID: LBGD-012

*** Section 15 - Regulatory Information ***

US Federal Regulations

A: General Product Information

All components of this product are listed on the U.S. EPA TSCA Inventory.

B: 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).

Organic Zinc Additive (Proprietary)

SARA 313: form R reporting required for 1.0% de minimus concentration (related to Zinc compounds)

State Regulations

A: General Product Information

No components require labeling under California Proposition 65.

B: Component Analysis - State

Component	CAS #	CA	FL	MA	MN	NJ	PA
Organic Zinc Additive	Proprietary	Yes	No	No	No	No	No

Other Regulations

A: General Product Information

No information available for the product.

B: Component Analysis - Inventory

Component	CAS #	TSCA	DSL	EINECS
Castor Oil, Hydrogenated, Lithium Salt	64754-95-6	Yes	Yes	Yes
Residual Oils (petroleum), Solvent Dewaxed	64742-62-7	Yes	Yes	Yes
Petroleum Distillates, Solvent Dewaxed Heavy Paraffinic	64742-65-0	Yes	Yes	Yes
Petroleum Distillates, Solvent-refined Heavy Paraffinic	64741-88-4	Yes	Yes	Yes
Petroleum Distillates, Hydrotreated Heavy Naphthenic	64742-52-5	Yes	Yes	Yes

C: Component Analysis - WHMIS IDL

No information is available.

*** Section 16 - Other Information ***

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: 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-012