

MATERIAL SAFETY DATA SHEET

LONE STAR LUBRICANTS
2232 MONEDA ST.
FORT WORTH, TX 76117-5310
(817) 831-2522 Fax (817) 834-0447

SECTION 1

IDENTITY (AS USED ON LABEL): LS-70LF Kronaplate (Marine Grease) K-70
CHEMICAL NAMES AND SYNONYMS: Grease
CHEMICAL FAMILY: Not applicable
FORMULA: Complex mixture
DATE PREPARED: March 15, 2010
INFORMATION OR EMERGENCY PHONE: (817) 831-2522
PREPARED BY: CHEMICAL COMMUNICATIONS COORDINATOR
LONE STAR LUBRICANTS, 2232 Moneda St. Ft. Worth, TX 76117

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS)

HEALTH: 0
FLAMMABILITY: 1
REACTIVITY: 0
SPECIAL NOTICE: -

SECTION 2 - HAZARDOUS COMPONENTS

CONCENTRATIONS

Organic Molybdenum Compound (CAS #68412-26-0)		
ACGIH TLV:	10 mg/m ³ as Mo	
OSHA PEL:	10 mg/m ³ as Mo	Trade Secret
Organic Calcium Compound		
ACGIH TLV:	5 mg/m ³ as Oil Mist	
OSHA PEL:	5 mg/m ³ as Oil Mist	Trade Secret
Organic Zinc Compound:*		
ACGIH TLV:	No Listing	
OSHA PEL:	No Listing	<10%
Naphthenic Oils (Severely Hydrotreated):		
ACGIH TLV:	5 mg/m ³ (as oil mist)	
OSHA PEL:	5 mg/m ³ (as oil mist)	Trade Secret
Synthetic Oil:		
ACGIH TLV:	5 mg/m ³ (as oil mist)	
OSHA PEL:	5 mh/m ³ (as oil mist)	Trade Secret
Acetone (CAS #67-64-1)		
ACGIH TLV:	750 ppm	
OSHA PEL:	750 ppm	
OSHA STEL:	2400 mg/m ³	<5%
Butyl Cellosolve (CAS #111-76-2)*		
ACGIH TLV:	25 ppm	
OSHA PEL:	25 ppm	<5%

*This chemical is subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40CFR Part 372.

SECTION 3 - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point:	Not available
Density (lb/gal):	7.7
Vapor Pressure (m Hg.):	Not available
Melting Point:	Not available
Vapor Density (AIR=1):	Not available
Evaporation Rate:	Not available
(Butyl Acetate = 1)	
Solubility in Water:	Nil
Appearance and Odor:	Yellow/green grease, slight petroleum odor
Volatile Organic Compound - Voc (grams/liter):	Not applicable

SECTION 4 - FIRE AND EXPLOSIVE HAZARD DATA

Flash Point (Method Used):	>300°F (C.O.C.)
Flammable Limits:	
LEL -	Not determined for product
UEL -	Not determined for product
Extinguishing Media:	CO ₂ , Foam, Dry Chemical or Halon
Special Fire Fighting Procedures:	
Wear self-contained breathing apparatus. Do not extinguish with water.	
Unusual Fire and Explosion Hazards:	
None	

SECTION 5 - REACTIVITY DATA

Stability:	Stable
Conditions to Avoid:	Open flame
Incompatibility (Materials to Avoid):	
Strong oxidizing agents	
Hazardous Decomposition Products:	
Irritating and/or toxic fumes including CO, CO ₂ , and NO _x may be released.	
Hazardous Polymerization:	None
Conditions to Avoid:	None

SECTION 6 - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE:	Not determined for product, see Section II.
Route(s) of Entry:	
Inhalation?	No
Skin?	Yes
Ingestion?	Yes

TOXICITY (ACUTE AND CHRONIC):

Molybdenum compounds may be slightly irritating.

CARCINOGENICITY: NTP-NO IARC-NO OSHA-NO

This organic calcium compound is a mild skin and eye irritant.

The acute oral LD50 (rats) is greater than 15 grams/kg.

CARCINOGENICITY: NTP-NO IARC-NO OSHA-NO

This organic zinc compound is a mild eye and skin irritant.

CARCINOGENICITY: NTP-NO IARC-NO OSHA-NO

Severely hydrotreated naphthenic oils may cause skin and eye irritation.

CARCINOGENICITY: NTP-NO IARC-NO OSHA-NO

Synthetic oils may cause skin and eye irritation.

CARCINOGENICITY: NTP-NO IARC-NO OSHA-NO

Acetone (CAS #67-64-1) can cause severe eye irritation.

CARCINOGENICITY: NTP-NO IARC-NO OSHA-NO

Butyl cellosolve (CAS #111-76-2) has dermal LD50 (guinea pigs) of 230 mg/kg and causes liver and kidney damage.

CARCINOGENICITY: NTP-NO IARC-NO OSHA-NO

HEALTH HAZARDS:

Eyes - can cause irritation, redness, blurred vision.

Skin - prolonged contact can cause irritation and dermatitis.

Ingestion - can cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

EMERGENCY AND FIRST AID:

Skin - wash with soap and water.

Eyes - flush with copious amounts of water, get medical attention.

Ingestion - do not induce vomiting, keep warm, get medical attention.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE**Steps To Be Taken in Case Material is Released for Spilled:**

Clean spill with absorbent material

Eliminate ignition sources

Do not store greasy materials in enclosed containers for long periods of time

Wear gloves, goggles and gas mask if TWA's are exceeded.

Waste Disposal Methods:

Dispose of waste in a chemical landfill as approved by current local, state and federal laws and regulations.

Precautions to be Taken in Handling and Storing:

Protect from physical damage. Store in a cool, dry, ventilated area away from acids, alkalis, and open flames.

Other Precautions:

None

SECTION 8 - CONTROL MEASURES**Respiratory Protection:**

Use NIOSH approved organic respirator if TWA/TLV limits are exceeded.

Ventilation:

Local Exhaust -

Use to maintain levels below TWA limits.

Mechanical -

Use non sparking equipment.

Special:

None

Other:

None

Protective Gloves:

Chemical resistant gloves

Eye Protection:

Wear safety glasses or goggles

Other Protective Equipment or Practices:

None

SECTION 9: - PHYSICAL/CHEMICAL CHARACTERISTICS**Boiling Point:**

Not available

Density (lb/gal):

7.7

Vapor Pressure (m Hg.):

Not available

Melting Point:

Not available

Vapor Density (AIR=1):

Not available

Evaporation Rate:

Not available

(Butyl Acetate = 1)

Solubility in Water:

Nil

Appearance and Odor:

Yellow/green grease, slight petroleum odor

Volatile Organic Compound -

Voc (grams/liter):

Not applicable

SECTION 10: REACTIVITY DATA

Stability:	Stable
Conditions to Avoid:	Open flame
Incompatibility (Materials to Avoid):	
Strong oxidizing agents	
Hazardous Decomposition Products:	
Irritating and/or toxic fumes including oxides of carbon, sulfur and nitrogen may be released.	
Hazardous Polymerization:	None
Conditions to Avoid:	None

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICITY (ACUTE AND CHRONIC):

Severely hydrotreated naphthenic oils may cause skin and eye irritation.

CARCINOGENICITY:	NTP-NO	IARC-NO	OSHA-NO
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Acetone (CAS #67-64-1) can cause severe eye irritation.

CARCINOGENICITY:	NTP-NO	IARC-NO	OSHA-NO
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HEALTH HAZARDS:

Eyes - can cause irritation, redness, blurred vision.

Skin - prolonged contact can cause irritation and dermatitis.

Ingestion - can cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

SECTION 12: ECOLOGICAL INFORMATION

This product is covered by EPA's Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) Petroleum Exclusion. Therefore releases to air, land, or water are not reportable under CERCLA ("Superfund"). However, under Section 311 of EPA's Clean Air Water Act (CWA). This product is considered an oil. As such, spills into or leading to surface waters that cause a sheen must be reported to the national response center, 800-424-8802.

This product is an oil under 49 CFR (DOT) part 130. If shipped by rail or highway in a tank with a capacity of 3,500 gallons or more, it is subject to the requirements of part 130. Mixture solutions in which this product is present at 10% or more may also be subject to this rule.

SECTION 13: DISPOSAL CONSIDERATIONS

Hazard characteristic and regulatory waste stream classification can change with product use.

Accordingly, it is the responsibility of the user to determine the proper storage, transportation, treatment and/or disposal methodologies for spent material and residues at the time of disposition.

Conditions of use may cause this material to become a "hazardous waste", as defined by federal or state regulations. It is the responsibility of the user to determine if the material is a "hazardous waste" at the time of disposal. Transportation, treatment, storage, and disposal of waste material must be conducted in accordance with RCRA regulations (see 40 CFR 260 through 40 CFR 271). State and/or local regulations may be more restrictive. Contact your regional US EPA office for guidance concerning case specific disposal issues. Empty drums and pails retain residue. DO NOT pressurize, cut, weld, braze solder, drill or expose this products empty container to heat, flame or other ignition sources. DO NOT attempt to clean it. Empty drums and pails should be drained completely, properly bunged or sealed, and promptly sent to a reconditioner.

SECTION 14: TRANSPORTATION INFORMATION

The shipping description below may not represent requirements for all modes of transportation, shipping methods or locations outside of the United States.

US DOT Status	Not regulated by the U.S. Department of Transportation as a hazardous material.
Proper Shipping Name	Not regulated
Hazard Class	Not regulated
Reportable Quantity	3,500 lbs
Other Requirements	Not applicable

SECTION 15: REGULATORY INFORMATION

The components of this product are listed on the EPA/TSCA inventory of chemical substances.

Protection of stratospheric ozone (pursuant to SECTION 611 of the Clean Air Act Amendments of 1990):

Per 40 CFR part 82, this product does not contain nor was it directly manufactured with any Class I or Class II ozone depleting substances.

In accordance with SARA title III, Section 313, The attached Environmental Data Sheet (EDS) should always be copied and sent with the MSDS.

SECTION 16: STATE REGULATORY INFORMATION

California Proposition 65: This material should not contain any of the components which are known to the State of California to cause cancer or birth defects or other reproductive harm Subject to the CA= California Hazardous Substance List; CA65C, CA65R, CA65C/R = California Safe Drinking Water and Toxics Enforcement Act of 1986 or Proposition 65 List.

New Jersey Petroleum Oil

Additional Remarks No components listed: CT=Connecticut Toxic Substance List, IL, LA, MA, NJ, NY, FL, PA, RI or as defined under Hazardous Substance for: CA, IL, LA, FL, NJ, PA.
More State information to be added as received

EMERGENCY OVERVIEWHazard Rankings

		HMIS	NFPA
Physical State: Semi-Solid to Solid (Smooth texture)	Health Hazard	0	0
Color: Yellow/green Oder: Mild petroleum odor	Fire Hazard	1	1
WARNING: INJECTION UNDER SKIN CAN CAUSE SEVERE INJURY. Most damage occurs in the first few hours. Initial symptoms may be minimal. Hot grease will cause thermal burns upon contact.	Reactivity	0	0
	Protective Equipment		

Spills may create a slipping hazard.

DISCLAIMER OF LIABILITY

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END OF MSDS

INFORMATION ON THIS FORM IS FURNISHED SOLELY FOR THE PURPOSE OF COMPLIANCE WITH OSHA'S HAZARD COMMUNICATION STANDARD, 29CFR 1910.1200 AND SHALL NOT BE USED FOR ANY OTHER PURPOSE.

(SIMILAR TO OSHA FORM 174)