

# MATERIAL SAFETY DATA SHEET

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

## SECTION I

IDENTITY (AS USED ON LABEL): LS-222 (Kronaplate)  
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 II - HAZARDOUS COMPONENTS

## CONCENTRATIONS

Naphthenic Oils (Severely Hydrotreated):		
ACGIH TLV:	5 mg/m <sup>3</sup> (as oil mist)	
OSHA PEL:	5 mg/m <sup>3</sup> (as oil mist)	Trade Secret
Mineral Spirits (CAS #8032-32-4)		
ACGIH TLV:	No Listing	
OSHA PEL:	No Listing	
MANUFACTURER'S RECOMENDED TLV:	100 ppm	Trade Secret
Quartz: (CAS #14808-60-7)		
ACGIH TLV:	.1 mg/m <sup>3</sup>	
OSHA PEL:	.1 mg/m <sup>3</sup>	<1%
Organic Zinc Compound (CAS #15337-18-5)*		
ACGIH TLV:	5 mg/m <sup>3</sup> (As Oil Mist)	
OSHA PEL:	5 mg/m <sup>3</sup> (As Oil Mist)	<10%
Acetone (CAS #67-64-1)		
ACGIH TLV:	750 ppm	
OSHA PEL:	750 ppm	
OSHA STEL:	2400 mg/m <sup>3</sup>	<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 III - PHYSICAL/CHEMICAL CHARACTERISTICS**

Boiling Point:	Not available
Density (lb/gal):	8.2
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/gold grease, slight ketone odor
Volatile Organic Compound - Voc (grams/liter):	Not applicable

---

**SECTION IV - FIRE AND EXPLOSIVE HAZARD DATA**

Flash Point (Method Used):	>400°F (C.O.C.)
Flammable Limits:	
LEL -	Not determined for product
UEL-	Not determined for product
Extinguishing Media:	CO <sub>2</sub> , 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 V - 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 <sub>x</sub> , SO <sub>x</sub> , and NH <sub>3</sub> may be released.	
Hazardous Polymerization:	None
Conditions to Avoid:	None

---

**SECTION VI - 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):

Severely hydrotreated naphthenic oils may cause skin and eye irritation.

CARCINOGENICITY: NTP-NO IARC-NO OSHA-NO

Mineral Spirits (CAS #8032-32-4) are irritating to eyes, skin and mucous membranes by inhalation. Inhalation above TLV causes headache, nausea, and coma.

CARCINOGENICITY: NTP-NO IARC-NO OSHA-NO

Quartz (Clay) has a fibrogenic potential upon inhalation.

CARCINOGENICITY: NTP-NO IARC-NO OSHA-NO

This organic zinc compound (CAS #15337-18-5) has an oral (rat) LD 50 of 14,900 mg/kg and a dermal (rabbits) LD50 >2000 mg/kg.

CARCINOGENICITY: NTP-NO IARC-NO OSHA-NO

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

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 VII - 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 VIII - 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

---

**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)**

---