

# 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-222FG (Kronaplate)  
CHEMICAL NAMES AND SYNONYMS: USDA H-2 Grease  
CHEMICAL FAMILY: Not applicable  
FORMULA: Complex mixture  
DATE PREPARED: April 12, 1999  
INFORMATION OR EMERGENCY PHONE: (817) 831-2522  
PREPARED BY: CHEMICAL COMMUNICATIONS COORDINATOR  
LONE STAR LUBRICANTS, 2232 Moneda St. Ft. Worth, TX 76117

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## HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS)

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

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## 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 |
| Aluminum (Powder) (CAS #7429-90-5)*       |  |              |
| ACGIH TLV:                                | 10 mg/m <sup>3</sup>                                 |              |
| OSHA PEL:                                 | 15 mg/m <sup>3</sup>                                 | <5%          |
| Acetone (CAS #67-64-1)                    |  |              |
| ACGIH TLV:                                | 750 ppm  |              |
| OSHA PEL:                                 | 750 ppm  |              |
| OSHA STEL:                                | 2400 mg/m <sup>3</sup>                               | <5%          |
| Inorganic Zinc Compound (CAS #1314-13-2)* |  |              |
| ACGIH TLV:                                | 5 mg/m <sup>3</sup> as Fume,<br>10 mg/m <sup>3</sup> |              |
| OSHA PEL:                                 | 5 mg/m <sup>3</sup> as Fume,<br>10 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.

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**SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS**

|   |                                   |
|---|-----------------------------------|
| Boiling Point:                                    | Not available                     |
| Density (lb/gal):                                 | 7.5                               |
| 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:                              | Silver Grease, slight ketone odor |
| Volatile Organic Compound -<br>Voc (grams/liter): | Not applicable                    |

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**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:  |   |
| Irritating and/or toxic fumes, including CO, CO <sub>2</sub> , ZNO <sub>x</sub> and No <sub>x</sub> may be released in a fire situation. |   |

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**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       |

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**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

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

CARCINOGENICITY: NTP-NO IARC-NO OSHA-NO

Inhalation exposure to inorganic zinc compound (CAS #1314-13-2) fumes or dust above the TWA may result in "metal fume fever" with symptoms including fever, chills, nausea, and tightness in the chest.

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.

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**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

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**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)**

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