

# 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-350 High Temp Lubricant  
CHEMICAL NAMES AND SYNONYMS: Synthetic Grease  
CHEMICAL FAMILY: Not applicable  
FORMULA: Complex mixture  
DATE PREPARED: August 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: 1  
FLAMMABILITY: 1  
REACTIVITY: 0  
SPECIAL NOTICE: -

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## SECTION II - HAZARDOUS COMPONENTS

## CONCENTRATIONS

Synthetic Oil:		
ACGIH TLV:	5 mg/m <sup>3</sup> ( as oil mist)	
OSHA PEL:	5 mg/m <sup>3</sup> ( as oil mist)	Trade Secret
Graphite (CAS #7782-42-5)		
ACGIH TLV:	2.5 mg/m <sup>3</sup> as Dust	
OSHA PEL:	2.5 mg/m <sup>3</sup> as Dust	Trade Secret
Inorganic Zinc Compound (CAS #1314-13-2)*		
ACGIH TLV:	5 mg/m <sup>3</sup> as Fume, 10 mg/m <sup>3</sup>	
OSHA PEL:	5 mg/m <sup>3</sup> as Fume, 10 mg/m <sup>3</sup>	<10%
Inorganic Silicone Compound (CAS #161790-53-2)		
ACGIH TLV:	10 mg/m <sup>3</sup>	
OSHA PEL:	80 mg/m <sup>3</sup>	Trade Secret
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%

\*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):	7.6
Vapor Pressure (m Hg.):	Negligible
Melting Point:	Not available
Vapor Density (AIR=1):	Not available
Evaporation Rate:	Not available
(Butyl Acetate = 1)	
Solubility in Water:	Negligible
Appearance and Odor:	Gray/black grease, mild odor
Volatile Organic Compound - Voc (grams/liter):	Not applicable

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**SECTION IV - 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 <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	

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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 include Oxides of Carbon, Sulfur, Antimony, Nitrogen and Fluorine Compounds may be released.	
Hazardous Polymerization:	Will not occur
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):

Synthetic oils may cause skin and eye irritation.

CARCINOGENICITY: NTP-NO IARC-NO OSHA-NO

Graphite (CAS #7782-42-5) dust can produce pneumoconiosis in humans.

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

Inorganic silicone compounds have an oral LD50 (rat) of 3160 mg/kg. Inorganic silicon compounds do not cause silicosis.

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

## 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

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**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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