

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-755
CHEMICAL NAMES AND SYNONYMS: LS-755 Drill Bit Grease
CHEMICAL FAMILY: Grease
FORMULA: Complex mixture
DATE PREPARED: February 13, 1999
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

| | | |
|--|-------------------------------|--------------|
| Molybdenum Disulfide (CAS #1317-33-5)* | | |
| ACGIH TLV: | 10 mg/m ³ as Mo | |
| OSHA PEL: | 10 mg/m ³ as Mo | Trade Secret |
| Graphite (CAS #7782-42-5) | | |
| ACGIH TLV: | 2.5 mg/m ³ as Dust | |
| OSHA PEL: | 2.5 mg/m ³ as Dust | Trade Secret |
| Lithium Grease: | | |
| ACGIH TLV: | No Listing | |
| OSHA PEL: | No Listing | Trade Secret |

*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): 8.7
Vapor Pressure (mm 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: Gray/black grease, no odor
Volatile Organic Compound -

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: CO₂, 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 Carbon, Nitrogen and Sulfur compounds may be released in a fire situation.

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 Carbon, Nitrogen and sulfur compounds may be released..
Hazardous Polymerization: Will not occur
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):

Molybdenum compounds may be slightly irritating.

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

Grease may cause skin and 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.

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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 oily 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)
