

SAFETY DATA SHEET



Revision Date: 05/15/2015
Revision Number: 001.1

1. PRODUCT AND COMPANY INFORMATION

Product:	Molybdenum Disulfide Petrolatum Meeting MIL-PRF-83483	Item number(s):	08-00B, 08-00H, 08-01, 08-02, 08-03, 08-04, 08-06
Product Type/Use:	Lubricant / Anti-Seize	NSN(s) Included:	8030-00-243-3285 8030-00-087-8630
Restriction of Use:	None Identified	Region(s):	U.S.A
Company Address:	Armite Laboratories Inc. 1560 Superior Ave Ste. A-4 Costa Mesa, CA 92627	Telephone:	949 646-9035
		Product Emergency:	CHEM-TEL 800-225-3924

2. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

Although this material contains quartz, the Respirable fraction is less than 0.1%. Do not breathe dust. Do not get in eyes. Keep container closed. Wash after handling. Use with adequate ventilation.

Signal Word	Hazard Class	Hazard Category	Pictogram(s)
WARNING	Eye Irritant	2B	None Required

Hazard Statement: Causes eye irritation.

Precautionary Statement(s)

Prevention: Wash hands thoroughly after handling. Wear protective gloves. Wear protective eyewear.

Response: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Storage: Not prescribed

Disposal: Not prescribed

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200 and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of chemicals (GHS).

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component(s)	CAS Number	Percentage*
Petrolatum	8009-03-8	48-52
Molybdenum Disulfide (>99%)	1317-33-5	Balance

4. FIRST AID MEASURES

Inhalation: Move to fresh air, if breathing is difficult. If not breathing, give artificial respiration. If symptoms develop and persist, get medical attention.

Skin contact: Wash with soap and water. If molten material contacts the skin, immediately cool before attempting removal. If symptoms develop and persist, seek medical attention.

Eye contact: Immediately flush eyes with plenty of water or normal saline, occasionally lifting eyelids until no material remains. If irritation persists, seek medical attention.

Ingestion: Do not induce vomiting. Keep head lower than hips to prevent aspiration. Get medical attention if necessary.

Symptoms: May cause nausea, vomiting, and diarrhea. Inhalation of oil mist may cause coughing, wheezing or shortness of breath.

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5. FIRE FIGHTING MEASURES

Extinguishing media: Water spray (fog), foam, dry chemical or carbon dioxide.

Special firefighting procedures: Water Jet spray may be ineffective. Oil will float on water and can spread fire.

Unusual fire or explosion hazard: No acute hazard. Move container from fire area if possible. Avoid breathing vapors.

Hazardous combustion products: Thermal decomposition may release toxic and /or hazardous gases of molybdenum and sulfur.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not allow product to enter sewer or waterways.

Clean-up method: Contaminated surfaces will be extremely slippery. Scrape up as much material as possible. Clean residue with soap & water.

7. HANDLING AND STORAGE

Handling: Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Keep container closed.

Storage: Keep in a cool, well ventilated area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	NIOSH
Molybdenum Disulfide* * (as Mo insoluble compounds)	10 mg/m3 TWA	15 mg/m3 TWA (total dust)	5 mg/m3 TWA* (Total dust) *soluble compounds as Mo

Skin Protection: Use appropriate gloves and protective clothing and equipment to reduce skin contact for sensitive persons.

Eye/Face Protection: Safety glasses or goggles with side shields should be worn to prevent eye contamination.

Respirator Protection: None required unless potential for mist is generated. Use approved respirator if there is a potential to exceed exposure limit(s).

Engineering controls: Local exhaust ventilation is recommended when general ventilation is not sufficient to control airborne contamination below occupational exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

These are typical values and not necessarily batch/specification specific.

Physical state:	Paste	Flash point:	>220°C / 428°F
Color :	Dark Grey	VOC content:	Virtually nil
Odor:	Mild petroleum	Boiling point / range:	<316°C / 600°F
Odor threshold:	Not available	Melting point /range:	55° / 131°F
pH:	Neutral	Evaporation rate:	<0.01

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Vapor Pressure: <0.01
Specific gravity: Not available
Vapor density: Heavier than air
Viscosity: Not available
Auto ignition temp: > 260° / 500°F

Solubility in water: Negligible
Partition coefficient (n-octanol/water): N/A
Flammable/Explosive limits: not flammable at ambient temp.
Lower limits: 0.9%
Upper limits: 7%

10. STABILITY AD REACTIVITY

Stability: Chemically stable at normal conditions.
Reactivity: Not available.
Conditions to avoid: powerful sources of ignition & extreme temperatures

Incompatible materials: Strong inorganic & organic acids, oxidizing agents.
Hazardous decomposition products: burning generates smoke, airborne soot, hydrocarbon & oxides of carbon & sulfur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: Tests conducted in 1990 at levels up to 750 mg/l powdered MoS₂ resulted in 0 mortality to rainbow trout (*Salmo gairdneri*).
Target Effects: No data available.

Health Effects:

Inhalation – Acute exposure: No specific data available. Insoluble molybdenum compounds are characterized by low toxicity.

Chronic Exposure: 25 one-hour exposures to 490 mg/m³ caused no effects in all the animals tested except one which died after third exposure.

Skin Contact – Acute exposure: Dermatitis has not been reported in exposed workers. **Chronic Exposure:** No data available.

Eye contact – Acute exposure: No specific data available. Some insoluble molybdenum compounds are irritating to the eyes.
Chronic Exposure: No data available.

Ingestion – Acute exposure: No data available. **Chronic Exposure:** Rats fed up to 500 mg daily for 44 days showed no toxic signs and all gained weight.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Effects
Molybdenum Disulfide (as Mo)	None	Irritant

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Molybdenum Disulfide (as Mo)	No	No	No

12. ECOLOGICAL INFORMATION

Ecological Information: Highly unlikely to cause notable environmental contamination. Non toxic to marine or land organisms.

Possible Effects: May generate oil fractions that could act as marine pollutant in extreme cases, but highly unlikely.

Bioaccumulation: Potentially nil. Relatively well behaved.

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13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal.
Hazardous waste number: Not a RCRA hazardous waste.

14. TRANSPORTATION INFORMATION

US Dept of Transportation (49 CFR) Not regulated

Int'l Air Transportation (ICSO/IATA) Not regulated

Water Transportation (IMO/IMDG) Not regulated

Proper shipping name: Not Regulated
Hazard class or division: None
Identification number: None
Packing group: None

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA: All components listed or are exempt from listing on the Toxic Substance Control Act Inventory.

CERCLA – Not listed

SARA Section 302 EHS: Not listed

SARA Section 311/312: Not listed

SARA Section 313: Not listed

California Proposition 65: No California Proposition 65 listed chemicals are known to be present.

Canada Regulatory Information

CEPA DSL/NDL Status: All components are listed on or are exempt from listing on the Canadian Domestic Substance List.

16. OTHER INFORMATION

Prepared by: Armite Laboratories Inc.

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