



MATERIAL SAFETY DATA SHEET

Section 1 – PRODUCT AND SAFETY SUPPLIER INFORMATION

Product Name: Small Particle Reagent
Common Name: Molybdenum (IV) Sulfide
Supplier: Lightning Powder Company, Inc.
13386 International Parkway, Jacksonville, FL 32218
Emergency Telephone: Chemtel® United States (800) 255-3924 International – 813-248-0585 (Collect)
Date Prepared: November 11, 2002

Section 2 – HAZARDOUS INGREDIENTS

<u>Ingredient</u>	<u>CAS#</u>	<u>Percent</u>	<u>PEL (OSHA)</u>	<u>TLV (ACGIH)</u>
Molybdenum Disulfide	1317-33-5	100	15 mg/m ³	10 mg/m ³

Section 3 – PHYSICAL/CHEMICAL PROPERTIES

Appearance and Odor: Black, odorless powder.
Specific Gravity: 4.8 Stability in Water: Insoluble
Boiling Point: No data Melting Point: 1185 deg. C
Vapor Density: n/a Vapor Pressure (mmHg): n/a
Evaporation Rate: n/a Percent Volatile: 0

Section 4 – FIRE AND EXPLOSION DATA

Flash Point: n/a UEL: n/a LEL: n/a
Extinguishing Media: Product is non-flammable.
Firefighting Procedures: Appropriate for surrounding fire.
Unusual Fire and Explosion Hazards: None

Section 5 – REACTIVITY DATA

Stability: Yes Hazardous Polymerization: No
Incompatibilities: Acids, oxidizing agents, hydrogen peroxide.
Hazardous Decomposition Products: Hydrogen sulfide, metal oxide fumes.



Section 6 – HEALTH HAZARD INFORMATION

Health Hazards: Low occupational hazard when used according to directions. Acute ingestion may be very hazardous and result in death.

Routes of Entry and First-Aid Procedures:

Eyes: Hold eyelids open and rinse with water for several minutes.

Inhalation: Supply fresh air. If required, provide artificial respiration. Keep patient warm.

Skin: Wash with soap and water.

Ingestion: Seek medical treatment.

Signs and Symptoms of Exposure: Irritation of eyes and upper respiratory tract. May be slightly irritating to skin. Ingestion of small amounts may produce G.I. irritation, nausea, or diarrhea due to liberation of hydrogen sulfide, a toxic and flammable gas.

Medical Conditions Aggravated by Exposure: The acute and chronic effects of this product are not fully known.

Section 7 – EXPOSURE CONTROLS

Respirator Protection: NIOSH approved dust mask.

Ventilation: As needed to keep dust levels down below exposure limits.

Protective Gloves: Impervious
glasses.

Eye Protection: Safety

Other Protective Equipment: Hazardous chemical fume hood with a face velocity of at least 100 feet per minute.

Work and Hygienic Practices: Use practices consistent with handling chemical powders. Wash after use.

Section 8 – SPILL OR LEAK PROCEDURES

Steps to be taken if material is spilled or released: Avoid inhalation of dust. Pick up mechanically. Reuse if possible or transfer to appropriate disposal container.

Waste Disposal Method: According to official regulations.

Section 9 – PRECAUTIONS FOR SAFE HANDLING AND USE

Special Precautions: Wear personal protection.

Storage Method: Store in a cool, dry, ventilated area in tightly sealed containers away from acids.



Section 10 – TOXICOLOGICAL DATA

Carcinogenicity: Not recognized as a carcinogen.

NPT: No

OSHA: No

IARC: No

Acute Inhalation LC50: No data

Acute Dermal LD50: No data

Acute Oral LD50: No data

Section 11 – ECOLOGICAL DATA

Do not allow material to be released to the environment without proper governmental permits.

Section 12 – TRANSPORTATION IDENTIFICATION

Proper Shipping Name: Not regulated.

Identification Number: n/a

Hazard Class: n/a

Packing Group: n/a