

LTS Research Laboratories, Inc. Safety Data Sheet Molybdenum Selenide

1. Product and Company Identification

Trade Name: Molybdenum Selenide

Chemical Formula: MoSe

Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.

Street: 37 Ramland Road
City: Orangeburg
State: New York
Zip Code: 10962
Country: USA

Tel #: 855-587-2436 / 855-lts-chem

24-Hour Emergency Contact: 800-424-9300 (US & Canada)

+1-703-527-3887 (International)

2. Hazards Identification

Signal Word: Danger



Hazard Statements: H301+H331: Toxic if swallowed or if inhaled

H373: May cause damage to central nervous system, the liver and the digestive system through prolonged or repeated exposure. Route of

exposure: Oral, Inhalation

Precautionary Statements: P260: Do not breathe dust/fume/gas/mist/vapors/spray

P301+P310: IF SWALLOWED: Immediately call a POISON CENTER

or doctor/physician

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest

in a position comfortable for breathing

P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 2 Flammability: 0 Physical: 1

3. Composition

Chemical Family: Inorganic Compound

Additional Names: Molybdenum Selenium Alloy

Molybdenum Selenide (MoSe)

Percentage: 100 wt% CAS #: N/A EC #: N/A

4. First Aid Procedures General Treatment: Seek medical attention if symptoms persist. **Special Treatment:** None N/A Important Symptoms: Inhalation: Remove victim to fresh air. Supply oxygen if breathing is difficult. Seek medical attention. Ingestion: Rinse mouth with water. Do not induce vomiting. Seek medical attention. Wash affected area with mild soap and water. Remove any Skin: contaminated clothing. Seek medical attention. Flush eyes with water, blinking often for several minutes. Remove Eyes: contact lenses if present and easy to do. Continue rinsing. Seek medical attention. 5. Firefighting Measures Flammability: Non-flammable, except as powder Extinguishing Media: Do not use water for metal fires. Use alcohol resistant foam, dry chemical or carbon dioxide. Spec. Fire Fighting Procedure: Use full-face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. See section 10 for decomposition products. 6. Accidental Release Measures Wear appropriate respiratory and protective equipment specified in If Material Is Released/Spilled: special protection information. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal. Take care not to raise dust. **Environmental Precautions:** Isolate runoff to prevent environmental pollution. 7. Handling and Storage **Handling Conditions:** Wash thoroughly after handling. **Storage Conditions:** Store in a cool dry place in a tightly sealed container. Store apart from materials and conditions listed in section 10. Do not use tobacco or food in work area. Wash thoroughly before Work/Hygienic Maintenance: eating and smoking. Do not blow dust off clothing or skin with compressed air. Ventilation: Provide sufficient ventilation to maintain concentration at or below threshold limit. 8. Exposure Controls and Personal Protection Permissible Exposure Limits: 0.2 mg/m3 as Se, long-term value Threshold Limit Value: 0.2 mg/m3 as Se, long-term value Special Equipment: None **Respiratory Protection:** Use a recommended dust respirator or mask. Only use equipment tested and approved under appropriate government standards. Protective Gloves: Rubber gloves Eye Protection: Safety glasses or goggles Protective work clothing. Wear close-toed shoes and long **Body Protection:** sleeves/pants.

9. P	hysical and Chemical Characteristics
Color	N/A
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	N/A
Water Solubility:	N/A
Boiling Point:	N/A
Melting Point:	N/A
Flash Point:	N/A
	N/A
Autoignition Temperature:	
Density:	N/A
Molecular weight:	174.9 g/mol
	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts With:	Strong oxidizing agents, Acids, Bromine trifluoride, Chlorine
	trifluoride, Fluorine, Lead oxide
Incompatible Conditions:	None
Hazardous Decomposition Products:	Molybdenum oxides, Selenium oxides
	11. Toxicological Information
Potential Health Effects:	
Eyes:	May cause irritation
Skin:	May cause irritation
Ingestion:	Toxic if swallowed
Inhalation:	Toxic if inhaled
Chronic:	NI/A
emonic.	Research
Signs & Symptoms:	N/A
Signs & Symptoms.	IV/A
Agamazatad Madical Candidana	NI/A
Aggravated Medical Conditions:	N/A
M.P. T. d. ID	NT/A
Median Lethal Dose:	N/A
Carcinogen:	N/A
	12. Ecological Information
Aquatic Toxicity:	High with long lasting effects
Persistent Bioaccumulation Toxicity:	N/A
Very Persistent, Very Bioaccumulative:	N/A
Notes:	N/A
	13. Disposal Considerations

Dispose of in accordance with local, state, national, and international regulations.

14. Transportation Data

Hazardous: Hazardous as powder only



Hazard Class: 9 Miscellaneous hazardous materials

Packing Group: III UN Number: UN3077

Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s (Molybdenum

Selenide)

15. Regulatory Information

Sec 302 Extremely Hazardous: No Sec 304 Reportable Quantities: N/A Sec 313 Toxic Chemicals: Yes

16. Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

Document Last Revised: 01/29/2020 horstories inc