LTS Research Laboratories, inc.

LTS Research Laboratories, Inc. Safety Data Sheet Molybdenum Sulfide

1. Product and Company Identification		
Trade Name:	Molybdenum sulfide	
Chemical Formula:	MoS_2	
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:	Warning	
Hazard Statements:	H315 Causes skin irritation H319 Causes serious eye irritation H335 May cause respiratory irritation	
Precautionary Statements:	P261 Avoid breathing dust/fume/vapor P305+P351 If in eyes: Rinse cautiously with water for several minutes	
Precautionary Statements: HMIS Health Ratings (0-4):		
HMIS Health Ratings (0-4): Health: Flammability:	P305+P351 If in eyes: Rinse cautiously with water for several minutes	
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HMIS Health Ratings (0-4): Health: Flammability: Physical: Chemical Family:	P305+P351 If in eyes: Rinse cautiously with water for several minutes 1 0 1 3. Composition Ceramic	
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	4. First Aid Procedures
General Treatment: Special Treatment: Important Symptoms:	Seek medical attention if symptoms persist. None None
Inhalation: Ingestion:	Remove victim to fresh air. Supply oxygen if breathing is difficult. Give one to two glasses of water and induce vomiting. Never induce vomiting or give anything by mouth to an unconscious person.
Skin:	Wash affected area with mild soap and water. Remove any contaminated clothing.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
	5. Firefighting Measures
	Non-flammable
Extinguishing Media:	No special restrictions – use suitable extinguishing agent for surrounding material and type of fire.
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
If Material Is Released/Spilled:	Wear appropriate respiratory and protective equipment specified in 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.
Environmental Precautions:	Take care not to raise dust. 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.
Work/Hygienic Maintenance:	Do not use tobacco or food in work area. Wash thoroughly before 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:	None
Threshold Limit Value:	3 mg/m^3 as Mo, respirable fraction, long-term value 10 mg/m^3 as Mo, inhalable fraction, long-term value
Special Equipment:	None
Respiratory Protection: Protective Gloves:	Dust Respirator Rubber gloves
Eye Protection:	Safety glasses or goggles
Body Protection:	Protective work clothing. Wear close-toed shoes and long sleeves/pants.

Metallic black Powder, Granules, Pellets, Sputtering target, Custom parts Odorless Insoluble N/A 1185 °C N/A N/A 5.06 g/cc
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1185 °C N/A N/A 5.06 g/cc
N/A N/A 5.06 g/cc
N/A 5.06 g/cc
5.06 g/cc
160.07 g/mol
10. Reactivity
Stable under recommended storage conditions
Oxidizing agents
None
Hydrogen sulfide, Sulfur oxides, Metal oxide fume
1. Toxicological Information
Causes serious irritation
Causes irritation
Low absorption
May cause irritation
N/Á
N/A
N/A
N/A
N/A
12. Ecological Information
Low
No
No
N/A
13. Disposal Considerations

14. Transportation Data		
Hazardous:	Not hazardous for transportation.	
Hazard Class:	N/A	
Packing Group:	N/A	
UN Number:	N/A	
Proper Shipping Name:	N/A	

15. Regulatory Information
No
N/A
No

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.

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