

Safety Data Sheet Molybdenum Sulfide

1. Product and Company Identification

Trade Name: Molybdenum sulfide

Chemical Formula: MoS₂

Recommended Use: Scientific research and development

Manufacturer/Supplier: Stanford Advanced Materials

Address: 23661 Birtcher Dr., Lake Forest, CA 92630 U.S.A.

Tel: (949) 407-8904 Fax: (949) 812-6690

Emergency Contact: (949) 407-8904

(This telephone number is available 24 hours per day, 7 days per week.)

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.

HMIS Health Ratings (0-4):

Health:
Flammability:

Physical:

3. Composition

Chemical Family: Ceramic

Additional Names: Molybdenum(IV) sulfide, Molybdenum disulfide

Molybdenum sulfide (MoS_2):

Percentage: 100 wt% CAS #: 1317-33-5 EC #: 215-263-9

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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: Eyes:	Wash affected area with mild soap and water. Remove any contaminated clothing. Flush eyes with water, blinking often for several minutes. Remove
A	contact lenses if present and easy to do. Continue rinsing
	5. Firefighting Measures
Flammability:	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.
,e a: .:	7. Handling and Storage
Handling Conditions: Storage Conditions:	Wash thoroughly after handling. Store in a cool dry place in a tightly sealed container. Store apart from
Work/Hygienic Maintenance:	materials and conditions listed in section 10. 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.
.6 .1	8. Exposure Controls and Personal Protection
Permissible Exposure Limits: Threshold Limit Value:	None 3 mg/m ³ as Mo, respirable fraction, long-term value
.1	10 mg/m ³ as Mo, inhalable fraction, long-term value
Special Equipment: Respiratory Protection:	None Dust Respirator Rubber gloves
Protective Gloves: Eye Protection:	Rubber gloves Safety glasses or goggles

9. I	Physical and Chemical Characteri	stics		,	
Color Form: Odor: Water Solubility:	Metallic black Powder, Granules, Pellets, Sp Odorless Insoluble	uttering ta	arget, Cı	istom parts	: '
Boiling Point: Melting Point: Flash Point:	N/A 1185 °C N/A	: ' '	1:	.;	: ' '
Autoignition Temperature: Density: Molecular weight:	N/A 5.06 g/cc 160.07 g/mol	`:		1.	·:
en al al al al ancient	10. Reactivity	: '			:
Stability: Reacts With: Incompatible Conditions: Hazardous Decomposition Products:	Stable under recommended st Oxidizing agents None Hydrogen sulfide, Sulfur oxid		٠,	ıme	:
4, 4, 4, 4, 4,	11. Toxicological Information	1:		1,	1:
Potential Health Effects: Eyes: Skin: Ingestion: Inhalation:	Causes serious irritation Causes irritation Low absorption May cause irritation	:'			:
Chronic: Signs & Symptoms: Aggravated Medical Conditions:	N/A : ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	: ' '	`:	.;	: ' '
Median Lethal Dose:	N/A	·:		:.	1
Carcinogen:	N/A	:	. :		: '
	12. Ecological Information				
Aquatic Toxicity: Persistent Bioaccumulation Toxicity: Very Persistent, Very Bioaccumulative:	Low No No	:	' :	.;	:
Notes:	N/A	·:		1,	<u>':</u>
	13. Disposal Considerations				
Dispose of in accordance with local, state	e, national, and international regul	ations.		.**	
	14. Transportation Data				
Hazardous: Hazard Class: Packing Group:	Not hazardous for transportati N/A N/A	ion.	`:	.:	
UN Number: Proper Shipping Name:	N/A N/A N/A	`:		1,	·:

		15. Regulatory Information	i	1	11	·
Sec 304	Extremely Hazardous: Reportable Quantities: Toxic Chemicals:	No N/A No	,	. :		111
:		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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