

## XI'AN FUNCTION MATERIAL GROUP CO., LTD

Material Safety Data Sheet Molybdenum Sulfide – Antimony Oxide

1. Product and Company Identification

Trade Name: Molybdenum sulfide – antimony oxide

Chemical Formula: MoS<sub>2</sub>/Sb<sub>2</sub>O<sub>3</sub>

Manufacturer/Supplier: XI'AN FUNCTION MATERIAL GROUP CO., LTD

Street: No. 69, Gazelle Valley, High-Tech Zone

City: XI'AN
State: Shaanxi
Zip Code: 710077
Country: China

Tel #: +86-29-88993870/+86-13519132051

## 2. Hazards Identification

Signal Word: Warning





Hazard Statements: H315: Causes skin irritation

H319: Causes serious eye irritation H351: Suspected of causing cancer H335: May cause respiratory irritation

**Precautionary Statements:** 

P261 Avoid breathing dust/fume/vapor

P281: Use personal protective equipment as required

P201: Obtain special instructions before use

P202: Do not handle until all safety precautions have been read and

understood

P308+P313: IF exposed or concerned: Get medical advice/attention P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do—

continue rinsing

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: 1
Flammability: 0
Physical: 1

3. Composition	
Chemical Family:	Ceramic
Additional Names:	None
Molybdenum sulfide (MoS <sub>2</sub> ):	
Percentage:	0-100 wt%
CAS #:	1317-33-5
EC #:	215-263-9
Antimony oxide (Y):	
Percentage:	0-100 wt%
CAS #: EC #:	1309-64-4 215-175-0
	4. First Aid Procedures
General Treatment:	Seek medical attention if symptoms persist.
Special Treatment:	None
Important Symptoms:	None
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult.
Ingestion:	Seek medical attention.
Skin:	Wash affected area with mild soap and water. Remove any
P	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
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.
	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.  Take care not to raise dust.
Environmental Precautions:	I ake care not to raise dust.  Isolate runoff to prevent environmental pollution.
Environmentari recautions.	isotate runoir to prevent environmental politition.
	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
Work/Hygionia Maintananaa	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: 0.5 mg/m<sup>3</sup> as Sb, long-term value

Threshold Limit Value: 0.5 mg/m<sup>3</sup> as Sb, long-term value

Special Equipment: None

**Respiratory Protection:** Use a respirator with type P100 (USA) or P3 (EN143) cartridges as a

> backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government

standards.

Protective Gloves: Butyl rubber, BR gloves Eye Protection: Safety glasses or goggles

Protective work clothing. Wear close-toed shoes and long **Body Protection:** 

sleeves/pants.

9. Physical and Chemical Characteristics

Color N/A

Form: Powder, Granules, Pellets, Sputtering target, Custom parts

Odor: Odorless Water Solubility: N/A **Boiling Point:** N/A Melting Point: N/A Flash Point: N/A **Autoignition Temperature:** N/A Density: N/A Molecular weight: N/A

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Oxidizing agents

**Incompatible Conditions:** None

**Hazardous Decomposition Products:** Sulfur oxides, Metal oxide fume, Hydrogen sulfide

11. Toxicological Information

Potential Health Effects:

Eyes: May cause irritation Skin: May cause irritation May cause irritation Ingestion: Inhalation: May cause irritation

Chronic: N/A

Signs & Symptoms: N/A **Aggravated Medical Conditions:** N/A

Median Lethal Dose: >34600 mg/kg for rat by mouth

Carcinogen: Suspected of causing cancer

IARC-2B: Possibly carcinogenic to humans: limited evidence in human

in the absence of sufficient evidence in experimental animals.

	12. Ecological Information
Aquatic Toxicity:	Low
Persistent Bioaccumulation Toxicity:	No
Very Persistent, Very Bioaccumulative:	No
Notes:	N/A
	13. Disposal Considerations
Dispose of in accordance with local, state, n	ational, and international regulations.
	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
Sec 302 Extremely Hazardous:	No
Sec 304 Reportable Quantities:	N/A
Sec 313 Toxic Chemicals:	Yes, Antimony oxide
	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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