

XI'AN FUNCTION MATERIAL GROUP CO., LTD Material Safety Data Sheet

Molybdenum Silicide

1. Product and Company Identification	
Chemical Formula:	$MoSi_2$
Recommended Use:	Scientific research and development
Manufacturer/Supplier:	XI'AN FUNCTION MATERIAL GROUP CO., LTD
Street:	No. 69, Gazelle Valley, High-Tech Zone
City:	XI'AN
State:	Shannxi
Zip Code:	710077
Country:	China
Tel #:	+86-29-88993870/+86-13519132051
	2. Hazards Identification
Signal Word:	None
Hazard Statements:	None
Precautionary Statements:	None
HMIS Health Ratings (0-4):	
Health:	
Flammability:	0
Physical:	0
	3. Composition
Chemical Family:	Ceramic
Additional Names:	Molybdenum disilicide
Molybdenum silicide (MoSi ₂):	
Percentage:	100 wt%
CAS #:	12136-78-6
EC #:	235-231-8
	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
Evage	contaminated clothing.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
	contact tenses if present and easy to do. Continue thisting

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. Take care not to raise dust. **Environmental Precautions:** Isolate runoff to prevent environmental pollution. 7. Handling and Storage Handling Conditions: Wash thoroughly after handling. Store in a cool dry place in a tightly sealed container. Store apart from **Storage Conditions:** 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: 15 mg/m³ as Mo, long-term value Threshold Limit Value: 10 mg/m³ as Mo inhalable fraction, long-term value 3 mg/m³ as respirable fraction Special Equipment: Respiratory Protection: Use a respirator with type N95 (USA) or PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. Protective Gloves: Rubber gloves Eye Protection: Safety glasses or goggles **Body Protection:** Protective work clothing. Wear close-toed shoes and long sleeves/pants. 9. Physical and Chemical Characteristics Color Dark grev Form: Powder, Granules, Pellets, Sputtering target, Custom parts

Odor: Odorless
Water Solubility: Insoluble
Boiling Point: N/A

Melting Point: 1870-2030 °C

Flash Point: N/A
Autoignition Temperature: N/A
Density: 6.31 g/cc
Molecular weight: 152.13 g/mol

10. Reactivity	
Stable under recommended storage conditions	
Acids, Interhalogens, Oxidizing agents	
None	
Silicon oxides, Molybdenum oxides, Metal oxide fume	
11. Toxicological Information	
May cause irritation	
N/A	
N/A	
N/A N/A	
IV/A	
N/A	
N/A	
12. Ecological Information	
Low	
No	
: No	
N/A	
13. Disposal Considerations	
ational, and international regulations.	
14. Transportation Data	
Not hazardous for transportation.	
N/A	
N/A	
N/A	
N/A	
15. Regulatory Information	
No	
N/A	

No

Sec 313 Toxic Chemicals:

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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