

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

Tungsten silicide

1. Product and Company Identification	
Trade Name:	Tungsten silicide
Chemical Formula:	WSi 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:	N/A
Hazard Statements:	N/A
mazard statements.	IVA
Precautionary Statements:	N/A
HMIS Health Ratings (0-4):	
Health:	1
Flammability:	1
Physical:	1
	3. Composition
Chemical Family:	Nonmetal
Additional Names:	None
Tungsten silicide (WSi ₂):	
Percentage:	100 wt%
CAS #:	12039-88-2
EC #:	234-909-0
	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.
	Keep patient warm. Seek immediate medical attention.
Ingestion:	Seek immediate medical attention.
Skin:	Immediately wash affected area with mild soap and water. Remove any
Error	contaminated clothing. Seek immediate medical attention.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove
	contact lenses if present and easy to do. Continue rinsing. Seek immediate medical attention.

5. Firefighting Measures Flammability: Non-flammable, except as powder No special restrictions – use suitable extinguishing agent for Extinguishing Media: 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. Keep unprotected persons away. 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. Isolate runoff to prevent environmental pollution. **Environmental Precautions:** 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: 5 mg/m³ as WSi₂, long-term value Threshold Limit Value: 5 mg/m³ as WSi₂, long-term value Special Equipment: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. **Respiratory Protection: Dust Respirator 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 Blue Form: Powder, Granules, Pellets, Sputtering target, Custom parts Odor: Odorless Water Solubility: Insoluble **Boiling Point:** N/A Melting Point: 2.165 °C Flash Point: N/A Autoignition Temperature: N/A Density: 9.4 g/cc

240.02 g/mol

Molecular weight:

10. Reactivity Stability: Stable under recommended storage conditions Reacts With: Oxidizing agents, acids, interhalogens, halogens **Incompatible Conditions:** Metal oxide fume, Tungsten oxide, silicon oxides Hazardous Decomposition Products: 11. Toxicological Information Potential Health Effects: Eyes: May cause irritation Skin: May cause irritation Ingestion: May cause irritation Inhalation: May cause respiratory irritation Chronic: Inorganic silicon compounds may be acute inhalation irritants. Prolonged inhalation may cause pulmonary fibrosis known as silicosis. Tungsten compounds may be irritating to the eyes and respiratory tract. Chronic exposure may result in permanent lung damage. Signs & Symptoms: N/A Aggravated Medical Conditions: N/A Median Lethal Dose: N/A Carcinogen: N/A 12. Ecological Information Aquatic Toxicity: N/A Persistent Bioaccumulation Toxicity: N/A Very Persistent, Very Bioaccumulative: N/A Do not allow material to be released to the environment without proper Notes: governmental permits. Avoid transfer into the environment. 13. Disposal Considerations Dispose of in accordance with local, state, national, 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

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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