

XI'AN FUNCTION MATERIAL GROUP CO., LTD

Material Safety Data Sheet Titanium Sulfide

1. Product and Company Identification

Trade Name: Titanium sulfide

Chemical Formula: TiS₂

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: H261: In contact with water releases flammable gas

H315 Causes skin irritation H319 Causes serious eye irritation H335: May cause respiratory irritation

Precautionary Statements: P231+P232: Handle under inert gas. Protect from moisture

P261 Avoid breathing dust/fume/vapor

P280: Wear protective gloves/protective clothing/eye protection/face

protection

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – $\,$

continue rinsing P405: Store locked up

P501: Dispose of contents/container in accordance with local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 2 Flammability: 2 Physical: 2

3. Composition	
Chemical Family:	Ceramic
Additional Names:	Titanium(IV) sulfide, Titanium sulphide, Titanium disulfide, Titanium disulphide
Titanium sulfide (TiS ₂):	
Percentage:	100 wt.%
CAS #:	12039-13-3
EC #:	234-883-0
	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
Eyes:	contaminated clothing.
	Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
	contact lenses if present and easy to do. Continue mising
	5. Firefighting Measures
Flammability:	Flammable
Extinguishing Media:	Do not use water for metal fires – use CO ₂ , sand, extinguishing powder
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 (HEDA) air filter and place in a closed container for disposal
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Environmental Precautions:	absolute (HEPA) air filter and place in a closed container for disposal. Take care not to raise dust. Isolate runoff to prevent environmental pollution.
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Environmental Precautions: Handling Conditions: Storage Conditions:	Take care not to raise dust. Isolate runoff to prevent environmental pollution. 7. Handling and Storage
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Handling Conditions: Storage Conditions:	Take care not to raise dust. Isolate runoff to prevent environmental pollution. 7. Handling and Storage Wash thoroughly after handling. Store in a cool dry place in a tightly sealed container. Store apart from materials and conditions listed in section 10. Do not use tobacco or food in work area. Wash thoroughly before

8. Exposure Controls and Personal Protection Permissible Exposure Limits: N/A Threshold Limit Value: N/A Special Equipment: None **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 Green Form: Powder, Granules Odor: Like rotten eggs Water Solubility: Reacts **Boiling Point:** N/A Melting Point: N/A Flash Point: N/A Autoignition Temperature: N/A Density: 3.2 g/cc Molecular weight: 112.00 g/mol 10. Reactivity Stability: Stable under recommended storage conditions Reacts with: Acids Incompatible Conditions/Materials: Oxidizing agents, Acids Hydrogen sulfide **Hazardous Decomposition Products:** 11. Toxicological Information Potential Health Effects: Eyes: Causes serious eye damage Skin: Causes irritation Ingestion: May cause irritation Inhalation: May cause irritation Chronic: Titanium compounds are considered physiologically inert. There are no reported cases in the literature where titanium as such has caused human intoxication N/A Signs & Symptoms: **Aggravated Medical Conditions:** N/A N/A Median Lethal Dose: N/A Carcinogen: 12. Ecological Information Aquatic Toxicity: Low Persistent Bioaccumulation Toxicity: No

Very Persistent, Very Bioaccumulative:

Notes:

No

N/A

13. Disposal Considerations

Dispose of in accordance with local, state, national, and international regulations.

14. Transportation Data

Hazardous: Hazardous for transportation.



Hazard Class: 4.2 Spontaneously combustible materials

Packing Group: III UN Number: UN3174

Proper Shipping Name: Titanium disulphide

15. Regulatory Information

Sec 302 Extremely Hazardous: No Sec 304 Reportable Quantities: N/A Sec 313 Toxic Chemicals: 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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