

XI'AN FUNCTION MATERIAL GROUP CO., LTD

Material Safety Data Sheet Titanium

1.	Prod	luct	and	Com	pany	Ic	lenti	ific	atioı	n
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Trade Name: Titanium Chemical Formula: Ti

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: Danger



Hazard Statements: H251 Self-heating: may catch fire

Precautionary Statements: P261 Avoid breathing dust/fume/vapor

P235+P410 Keep cool; protect from sunlight

HMIS Health Ratings (0-4):

Health:

Flammability: 1 (3 if powder)

Physical: 2

3. Composition

Chemical Family: Metal Additional Names: N/A

Titanium (Ti):

Percentage: 100 wt% CAS #: 7440-32-6 EC #: 231-142-3

4. First Aid Procedures General Treatment: Seek medical attention if symptoms persist. Special Treatment: None **Important Symptoms:** None Remove victim to fresh air. Supply oxygen if breathing is difficult. Inhalation: Give one to two glasses of water and induce vomiting. Never induce Ingestion: vomiting or give anything by mouth to an unconscious person. Wash affected area with mild soap and water. Remove any Skin: contaminated clothing. Flush eyes with water, blinking often for several minutes. Remove Eyes: contact lenses if present and easy to do. Continue rinsing 5. Fire and Explosion Hazards Data Flammability: Spontaneously flammable in air 460 °C for -100 mesh powder Flash Point: **Autoignition Temperature:** 1200 °C for bulk, 480 °C for fine particles in cloud, 250 °C for fine powders in cloud Extinguishing Media: Do not use water for metal fires – use sand, extinguishing powder. Do not use CO₂. Spec. Fire Fighting Procedure: Use full-face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. 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. Isolate runoff to prevent environmental pollution. **Environmental Precautions:** 7. Handling and Storage **Handling Conditions:** Wash thoroughly after handling. Mixing, blending, milling, or grinding of dry powder should be done only under argon or helium. Store in a cool dry place in a tightly sealed container. **Storage Conditions:** Do not use tobacco or food in work area. Wash thoroughly before Work/Hygienic Maintenance: eating and smoking. Do not blow dust off clothing or skin with compressed air. Provide sufficient ventilation to maintain concentration at or below Ventilation: threshold limit. 8. Exposure Controls and Personal Protection Permissible Exposure Limits: N/A Threshold Limit Value: N/A **Special Equipment:** None **Respiratory Protection:** Dust Respirator, NIOSH approved **Protective Gloves:** Rubber 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 Metallic to dark grey Form: Powder, Granules, Pellets, Sputtering target, Custom parts Odor: **Odorless** Water Solubility: Insoluble 3287 °C **Boiling Point: Melting Point:** 1668 °C Density: 4.51 g/cc Molecular weight: 47.88 g/mol 10. Reactivity Stable under recommended storage conditions Stability: Reacts With: Oxidizing agents, Air, Halogens, Halocarbons, Mineral acids **Incompatible Conditions:** Heat, light **Hazardous Decomposition Products:** Metal oxide fume 11. Toxicological Information Potential Health Effects: Eyes: May cause irritation Skin: May cause irritation Ingestion: May cause irritation Inhalation: May cause irritation Chronic: N/A Signs & Symptoms: N/A **Aggravated Medical Conditions:** N/A Median Lethal Dose: N/A N/A Carcinogen: 12. Ecological Information Ecological data is not available. 13. Disposal Considerations Dispose of in accordance with local, state, national, and international regulations. 14. Transportation Data Hazardous: Hazardous as powder only. 4.2 Substance liable to spontaneous combustion **Hazard Class:** II for powders less than 100 microns in diameter Packing Group: III for powders greater than 100 microns in diameter UN Number: UN2546 Proper Shipping Name: Titanium powder, dry

Wetted powder should be classed 4.1, PGII, UN1352

Notes:

	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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