

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

1. Product and Company Identification		
Trade Name: Chemical Formula:	Titanium Hydride TiH ₂	
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: Tel #:	China +86-29-88993870/+86-13519132051	
	2. Hazards Identification	
Signal Word:	Danger	
Hazard Statements:	H228: Flammable solid	
Precautionary Statements:	 P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking P280: Wear protective gloves/protective clothing/eye protection/face protection P240: Ground/bond container and receiving equipment P241: Use explosion-proof electrical/ventilating/light/equipment P370+P378: In case of fire: Use sand, CO2, or powdered extinguishing agent for extinction 	
HMIS Health Ratings (0-4):	agent for extinction	
Health:	1	
Flammability:	3	
Physical:	2	
	3. Composition	
Chemical Family: Additional Names:	Inorganic Compound Titanium (II) hydride	
Titanium hydride (TiH ₂):		
	100 wt%	
Percentage:		
Percentage: CAS #:	7704-98-5	

	4. First Aid Procedures
General Treatment: Special Treatment: Important Symptoms:	Seek medical attention if symptoms persist. None None
Inhalation: Ingestion:	Remove victim to fresh air. Supply oxygen if breathing is difficult. Give one to two glasses of water and induce vomiting. Never induce vomiting or give anything by mouth to an unconscious person.
Skin:	Wash affected area with mild soap and water. Remove any 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:	Flammable
Extinguishing Media: Spec. Fire Fighting Procedure:	Do not use water for metal fires – use CO ₂ , sand, extinguishing powder 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. Keep away from ignition sources.
Environmental Precautions:	Isolate runoff to prevent environmental pollution.
	7. Handling and Storage
Handling Conditions:	Handle under dry, protective gas. Protect against electrostatic charges. Ensure good ventilation at the workplace. Wash thoroughly after handling.
Storage Conditions:	Store under dry protective gas 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: Threshold Limit Value:	N/A N/A
Special Equipment:	None Dust Respirator
Respiratory Protection: Protective Gloves:	Dust Respirator 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	N/A	
Form:	Powder	
Odor:	Odorless	
Water Solubility:	Insoluble	
Boiling Point:	N/A	
Melting Point:	450 °C	
Flash Point:	N/A	
Autoignition Temperature:	N/A	
Density:	3.9 g/cc	
Molecular weight:	49.88 g/mol	
	10. Reactivity	
Stability:	Stable under recommended storage conditions	
Reacts With:	Acids, water/moisture, air, oxidizing agents	
Incompatible Conditions:	Air/moisture, oxidizing environments	
Hazardous Decomposition Products:	Hydrogen, Titanium oxides, 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/Å	
Signs & Symptoms:	N/A	
Aggravated Medical Conditions:	N/A	
Aggravated Medical Conditions.	IVA	
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	
Notes:	Do not allow material to be released to the environment without prope	
	governmental permits	
	Do not allow undiluted product or large quantities to reach ground	
	water, water course or sewage system.	
	Avoid transfer into the environment	
	13. Disposal Considerations	

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

14. Transportation Data		
Hazardous:	Hazardous for transportation	
	FLAMMABLE SOLID	
Hazard Class:	4.1 Flammable solids, self-reactive substances and solid desensitized	
	explosives	
Packing Group:	PG II	
UN Number:	UN1871	
Proper Shipping Name:	Titanium hydride	
	15. Regulatory Information	
Sec 302 Extremely Hazardous:	N/A	
Sec 304 Reportable Quantities:	N/A	
Sec 313 Toxic Chemicals:	N/A	
	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.

Document Last Revised:

12/14/2018