

XI'AN FUNCTION MATERIAL GROUP CO., LTD

Safety Data Sheet Titanium Carbide

	1.	Product as	nd Company	/ Identification
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Trade Name: Titanium carbide

Chemical Formula: TiC

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: Warning



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

HMIS Health Ratings (0-4): Powder Bulk

 Health:
 1
 0

 Flammability:
 2
 0

 Physical:
 1
 0

3. Composition

Chemical Family: Ceramic

Additional Names: Titanium(IV) carbide

Titanium carbide (TiC):

Percentage: 100 wt% CAS #: 12070-08-5 EC #: 235-120-4

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: Seek medical attention. Ingestion: 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. Firefighting Measures Flammability: Non-flammable, except as powder Extinguishing Media: Do not use water – use CO₂, sand, extinguishing powder or foam. 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 Wear appropriate respiratory and protective equipment specified in If Material Is Released/Spilled: 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: N/A Threshold Limit Value: N/A **Special Equipment:** None **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:** Nitrile rubber, NBR 0.11mm thick. Penetration time of glove material: 480 minutes 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 grey		
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts		
Odor:	N/A		
Water Solubility:	N/A		
Boiling Point:	4820 °C		
Melting Point:	~3140 °C		
Flash Point:	N/A		
Autoignition Temperature:	N/A		
Density:	4.93 g/cc		
Molecular weight:	59.88 g/mol		
	10. Reactivity		
Stability:	Stable under recommended storage conditions		
Reacts With:	Acids, Oxidizing agents		
Incompatible Conditions:	None		
Hazardous Decomposition Products:	Carbon monoxide, Carbon dioxide, Titanium oxide		
	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		
115514vated Medical Conditions.	17/11		
Median Lethal Dose:	N/A		
Carcinogen:	N/A		
	12. Ecological Information		
Aquatic Toxicity:	Low		
Persistent Bioaccumulation Toxicity:	No		
Very Persistent, Very Bioaccumulative:	No		
Notes:	N/A		

13. Disposal Considerations

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

14. Transportation Data

Hazardous: Hazardous as powder only.



Hazard Class: 4.1 Flammable solids, self-reactive substances and solid desensitized

explosives

Packing Group:

UN Number: UN3178

Proper Shipping Name: Flammable solid, inorganic, n.o.s. (Titanium carbide)

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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