

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

1. Product and Company Identification

Trade Name: Chemical Formula:	Tantalum carbide TaC
Manufacturer/Supplier: Street: City: State: Zip Code: Country: Tel #:	XI'AN FUNCTION MATERIAL GROUP CO., LTD No. 69, Gazelle Valley, High-Tech Zone XI'AN Shannxi 710077 China +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 P370+P378: In case of fire: Use CO₂ or powder for extinction
HMIS Health Ratings (0-4):	Powder Bulk
Health: Flammability:	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
Physical:	3. Composition
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Chemical Family: Additional Names:	Ceramic Tantalum(IV) carbide
Tantalum carbide (TaC): Percentage: CAS #: EC #:	100 wt% 12070-06-3 235-118-3

	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
	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:	Non-flammable, except as powder
Extinguishing Media:	Do not use water for metal fires – use CO ₂ , 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 (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.
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
Ventilation:	compressed air. Provide sufficient ventilation to maintain concentration at or below
	threshold limit.
8.1	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
	equipment tested and approved under appropriate government standards.
Protective Gloves:	equipment tested and approved under appropriate government standards. Butyl rubber, BR gloves
Protective Gloves: Eye Protection: Body Protection:	equipment tested and approved under appropriate government standards.

9. Physical and Chemical Characteristics		
Color	Dark grey	
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts	
Odor:	N/A	
Water Solubility:	Insoluble	
Boiling Point:	5500 °C	
Melting Point:	3880 °C	
Flash Point:	N/A	
Autoignition Temperature:	N/A	
Density:	13.9 g/cc	
Molecular weight:	192.96 g/mol	
	10. Reactivity	
Stability:	Stable under recommended storage conditions	
Reacts With:	Oxidizing agents	
Incompatible Conditions:	None	
Hazardous Decomposition Products:	Carbon monoxide, Carbon dioxide, 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	
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.	
	PLANIMABLE SOLID	
Hazard Class:	4.1 Flammable solids, self-reactive substances and solid desensitized explosives	
Packing Group:	III	
UN Number:	UN3178	
Proper Shipping Name:	Flammable solid, inorganic, n.o.s. (Tantalum 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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