

Trade Name: Chemical Formula: Recommended Use:

Street:

City:

State: Zip Code:

Tel #:

Country:

Manufacturer/Supplier:

XI'AN FUNCTION MATERIAL GROUP CO., LTD Material Safety Data Sheet Tantalum Tungsten Alloy

1. Product and Company Identification	
Tantalum tungsten alloy Ta/W Scientific research and development	

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:	Danger
Hazard Statements:	H228: Flammable solid H315: Causes skin irritation H319: Causes serious eye irritation H335: May cause respiratory irritation
Precautionary Statements:	 P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking P261 Avoid breathing dust/fume/vapor P280: Wear protective gloves/protective clothing/eye protection/face protection P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing P370+P378: In case of fire: Use CO₂ or powder for extinction P405: Store locked up P501: Dispose of contents/container in accordance with local/regional/national/international regulations
HMIS Health Ratings (0-4): Health: Flammability: Physical:	Powder Bulk 1 1 3 0 1 0

3. Composition		
Chemical Family:	Alloy	
Additional Names:	None	
Tantalum (Ta):		
Percentage:	0-100 wt%	
CAS #:	7440-25-7	
EC #:	231-135-5	
Tungsten (W):		
Percentage:	0-100 wt%	
CAS #:	7440-33-7	
EC #:	231-143-9	
	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 or extinguishing powder.	
Spec. Fire Fighting Procedure:	Use full-face, self-contained breathing apparatus with full protective	
spee. The Fighting Floedule.	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	
	compressed air.	
	Dravida sufficient contilation to maintain concentration at or holow	
Ventilation:	Provide sufficient ventilation to maintain concentration at or below threshold limit.	

8. Exposure Controls and Personal Protection				
Permissible Exposure Limits:	5 mg/m ³ as Ta metal, long-term value			
Threshold Limit Value:	5 mg/m^3 as W, long-term value			
	10 mg/m ³ as W, short-term value			
Special Equipment:	None			
Respiratory Protection:	Use a respirator with type P100 (USA) or P3 (EN143) cartridges as a			
1 2	backup to engineering controls. Risk assessment should be performed			
	to determine if air-purifying respirators are appropriate. Only use			
	equipment tested and approved under appropriate government			
	standards.			
Protective Gloves:	Rubber gloves			
Eye Protection:	Safety glasses or goggles			
Body Protection:	Protective work clothing. Wear close-toed shoes and long			
5	sleeves/pants.			
9.	Physical and Chemical Characteristics			
Color	Mettalic			
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts			
Odor:	Odorless			
Water Solubility:	Insoluble			
Boiling Point:	N/A			
Melting Point:	3020-3422 °C			
Flash Point:	N/A			
Autoignition Temperature:	N/A			
Density:	N/A			
Molecular weight:	N/A			
	10. Reactivity			
Stability:	Stable under recommended storage conditions			
Reacts With:	Acids, Oxidizing agents			
Incompatible Conditions:	None			
Hazardous Decomposition Products:	Tantalum oxide, Metal oxide fume			
	11. Toxicological Information			
Potential Health Effects:				
Eyes:	Causes serious eye damage			
Skin:	Causes 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 Bioaccumulat				
Notes:	N/A			

13. Disposal Considerations	13.	Dis	posal	Consid	lerations
-----------------------------	-----	-----	-------	--------	-----------

Dispose of in accordance with local, s	state, national, and international regulations.		
14. Transportation Data			
Hazardous:	Hazardous as powder only.		
Hazard Class:	4.1 Flammable solid, self-reactive substances and solid desensitized explosives		
Packing Group:	II		
UN Number:	UN3089		
Proper Shipping Name:	Metal powders, flammable, n.o.s. (Tantalum tungsten alloy)		
	15. Regulatory Information		
Sec 302 Extremely Hazardous:	No		
See 502 Extremely mazardous.			
Sec 304 Reportable Quantities:	N/A		

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:

07/02/2018