

XI'AN FUNCTION MATERIAL GROUP CO., LTD

Safety Data Sheet Tungsten Tantalum Alloy

1. Product and Company Identification

Trade Name: Tungsten Tantalum Alloy

Chemical Formula: WTa

Recommended Use: Scientific research and development

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

24-Hour Emergency Contact:

2. Hazards Identification

Signal Word: Danger





Hazard Statements: H228: Flammable solid (powder)

H315: Causes skin irritation

H319: Causes serious eye irritation

H335: May cause respiratory irritation

Precautionary Statements: P210: Keep away from heat/sparks/flame. No smoking.

P240: Ground/bond container and receiving equipment.

P241: Use explosion-proof electrical/ventilating/light/ equipment

P261: Avoid breathing dust/fume/gas/mist/vapours/spray

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 metal fires for

extinction

P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4): Powder Bulk

Health: 1 1 Flammability: 3 0 Physical: 1 1

3. Composition	
Chemical Family:	Metal Alloy
Additional Names:	Tantalum Tungsten Alloy
Tungsten (W):	
Percentage:	0-100 wt%
CAS #:	7440-33-7
EC #:	231-143-9
Tantalum (Ta):	
Percentage:	0-100 wt%
CAS #:	7440-25-7
EC #:	231-135-5
	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.
	Keep patient warm. Seek immediate medical attention.
Ingestion:	Seek immediate medical attention.
Skin:	Immediately wash affected area with mild soap and water. Remove any
Erron	contaminated clothing. Seek immediate medical attention.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove
	contact lenses if present and easy to do. Continue rinsing. Seek immediate medical attention.
	5. Firefighting Measures
Flammability:	Non-flammable, except as powder
Extinguishing Media:	Do not use water for metal fires – use CO2, sand, 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. Keep unprotected persons away. 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
Environmental Precautions:	ignition sources. Isolate runoff to prevent environmental pollution.
Environmental recautions.	isotate runori to prevent environmental pontition.

7. Handling and Storage

Handling Conditions: Wash thoroughly after handling.

Storage Conditions: Store in a cool dry place in a tightly sealed container. Store away from

acids and oxidizing agents. 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: 5 mg/m³ as W, time weighted average

5 mg/m³ as Ta, long-term value

Threshold Limit Value: 5 mg/m³ as W, long-term value

10 mg/m³ as W, short-term value

Special Equipment: Properly operating chemical fume hood designed for hazardous

chemicals and having an average face velocity of at least 100 feet per

minute.

Respiratory Protection: Use a respirator with type P100 (USA) or P3 (EN143) cartridges as a

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

sleeves/pants.

9. Physical and Chemical Characteristics

Color Metallic grey

Form: Powder, Granules, Pellets, Sputtering target, Custom parts

Odor: N/A Water Solubility: Insoluble **Boiling Point:** N/A **Melting Point:** N/A 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: Bromine, chloride trifluoride, Potassium dichromate, Nitryl Fluoride,

Fluorine, Oxygen difluoride, Hydrogen sulfide gas, Peroxides, lead oxide, Oxidizing agents, Oxygen, Halogens, Strong bases, Hydrogen

fluoride

Incompatible Conditions: Water/moisture, air

Hazardous Decomposition Products: Metal oxide fume, tantalum oxides, tungsten oxide

11. Toxicological Information

Potential Health Effects:

Eyes:May cause irritationSkin:Causes skin irritationIngestion:May cause irritation

Inhalation: May cause respiratory irritation

Chronic: N/A

Signs & Symptoms: N/A
Aggravated Medical Conditions: N/A

Median Lethal Dose: N/A

Carcinogen: IARC: No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed human

carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by

NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by

OSHA.

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 proper

governmental permits.

Avoid transfer into the environment.

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

Packing Group: II UN Number: UN3089

Proper Shipping Name: Metal powder, flammable, n.o.s. (Tungsten Tantalum Alloy)

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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