

XI'AN FUNCTION MATERIAL GROUP CO., LTD

Material Safety Data Sheet Tantalum Metal

1. Product and Company Identification

Trade Name: Tantalum metal

Chemical Formula: Ta

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: China

Tel #: +86-29-88993870/+86-13519132051

2. Hazards Identification

Signal Word: Danger





Hazard Statements: H228 Flammable solid (powder)

H319 Causes serious eye irritation

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

P240 Ground/bond container and receiving equipment.

P305+P351 If in eyes: Rinse cautiously with water for several minutes.

HMIS Health Ratings (0-4): Powder Pieces & larger

 Health:
 1
 0

 Flammability:
 3
 0

 Physical:
 1
 0

3. Composition

Chemical Family: Metal
Additional Names: Tantalium

Tantalum (Ta):

Percentage: 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

Skin:

Spec. Fire Fighting Procedure:

Inhalation: Remove victim to fresh air. Supply oxygen if breathing is difficult. Ingestion: Give one to two glasses of water and induce vomiting. Never induc

Give one to two glasses of water and induce vomiting. Never induce vomiting or give anything by mouth to an unconscious person.

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 CO₂, 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.

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.

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 Ta, long-term value

Threshold Limit Value: Withdrawn

Special Equipment: None

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 | Dark metallic grey |
| Form: | Powder, Granules, Pellets, Sputtering target, Custom parts |
| Odor: | Odorless |
| Water Solubility: | Insoluble |
| Boiling Point: | 5458 °C |
| Melting Point: | 3017 °C |
| Flash Point: | N/A |
| Autoignition Temperature: | N/A |
| Density: | 16.69 g/cc |
| Molecular weight: | 180.948 g/mol |
| | 10. Reactivity |
| Stability: | Stable under recommended storage conditions |
| Reacts With: | Oxidizing agents, Acids |
| Incompatible Conditions: | None |
| Hazardous Decomposition Products: | Metal oxide fume |
| | 11. Toxicological Information |
| Potential Health Effects: | |
| Eyes: | May cause serious 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 |
| Median Lethal Dose: | N/A |
| Carcinogen: | N/A |
| | 12. Ecological Information |
| Aquatic Toxicity: | Low |
| Persistent Bioaccumulation Toxicity: | No |
| Very Persistent, Very Bioaccumulativ | ve: 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.

FLAMMABLE SOLID

Hazard Class: 4.1 Flammable solids

Packing Group: II UN Number: UN3089

Proper Shipping Name: Metal powders, flammable, n.o.s. (Manganese)

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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