

XI'AN FUNCTION MATERIAL GROUP CO., LTD

Material Safety Data Sheet Tantalum Bromide

1. Product and Company Identification

Trade Name: Tantalum Bromide

Chemical Formula: TaBr₅

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

2. Hazards Identification

Signal Word: Danger



Hazard Statements: H302: Harmful if swallowed H312:

Harmful in contact with skin

H314: Causes severe skin burns and eye damage

H332: Harmful if inhaled

H335: May cause respiratory irritation

Precautionary Statements: P260: Do not breathe dust/fume/gas/mist/vapors/spray

P264: Wash face, hands and any exposed skin thoroughly after

handling

P270: Do not eat, drink or smoke when using this product

P271: Use only outdoors or in a well-ventilated area

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

P363: Wash contaminated clothing before reuse

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off

immediately all contaminated clothing. Rinse skin with water/shower P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do –

continue rinsing

P330: Rinse mouth

P331: Do NOT induce vomiting

P403+P233: Store in a well-ventilated place. Keep container tightly

closed

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:

3. Composition

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Chemical Family: Inorganic compound

Additional Names: None

Tantalum Bromide (TaBr₅)

Percentage: 100 wt% CAS #: 13451-11-1 EC #: 236-618-4

4. First Aid Procedures

General Treatment: Seek medical attention if symptoms persist.

Special Treatment: None Important Symptoms: N/A

Inhalation: Remove victim to fresh air. Supply oxygen if breathing is difficult. Call

a physician or Poison Control Center Immediately. Do not use mouth-

to-mouth method if victim ingested or inhaled the substance.

Ingestion: Rinse mouth with water. Do not induce vomiting. Never give anything

by mouth to an unconscious person. Immediate medical attention is

required.

Skin: Wash affected area with mild soap and water. Remove any

contaminated clothing. Seek medical attention.

Eyes: Flush eyes with water, blinking often for several minutes. Remove

contact lenses if present and easy to do. Continue rinsing. Seek medical

attention.

5. Firefighting Measures

Flammability: Non-Flammable, except as powder

Extinguishing Media: CO₂, dry chemical, dry sand, alcohol-resistant 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

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: N/A
Threshold Limit Value: N/A
Special Equipment: None

Respiratory Protection: Use a recommended dust respirator or mask. 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 Yellow

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

Odor:
Water Solubility:
N/A
Boiling Point:
Melting Point:
Pungent
N/A
348.8 °C
Melting Point:
265 °C
Flash Point:
N/A
Autoignition Temperature:
N/A
Density:
4.67 g/cm³

Molecular weight: 580.49 g/mol

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Acids

Incompatible Conditions: Moisture sensitive

Hazardous Decomposition Products: Hydrogen bromide, Tantalum oxide

11. Toxicological Information

Potential Health Effects:

Eyes: Causes severe damage
Skin: Causes severe skin burns
Ingestion: Harmful if swallowed
Inhalation: Harmful if inhaled

Chronic: N/A

Signs & Symptoms: Causes burns by all exposure routes. Ingestion causes severe swelling,

severe damage to the delicate tissue and danger of perforation.

Aggravated Medical Conditions: N/A

Median Lethal Dose: N/A

Carcinogen: N/A

12. Ecological Information

Aquatic Toxicity: May cause long-term adverse effects in the environment.

Persistent Bioaccumulation Toxicity: May persist Very Persistent, Very Bioaccumulative: N/A

Notes: Do not allow the material to contaminate ground water system.

13. Disposal Considerations

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

14. Transportation Data

Hazardous: Hazardous as powder only



Hazard Class: 8 Corrosives

Packing Group: III UN Number: UN3260

Proper Shipping Name: Corrosive solid, acidic, inorganic, n.o.s. (Tantalum Bromide)

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Sec 302 Extremely Hazardous:

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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