

## GHS Safety Data Sheet

MSDS No. : TAI01PAEG

Date Issued: 2013/02/18

### Section 1. Identification of the substance or mixture and of the supplier

#### 1.1 Product Information

**Product name:** TaB<sub>2</sub>    **Tantalum boride**

Product number:	Purity	Form	Size (mm) or Shape
TAI01PB	99 %(2N)	powder	—
TAI01GB	99 %up(2Nup)	grains	—
—	99 %up(2Nup)	rod/tablet	10xt5, 20xt5, Various sizes
—	99 %up(2Nup)	target	101.6xt5, 152.4xt5, Various sizes

#### 1.2 Company Information:

Manufacturer :    Kojundo Chemical Laboratory Co., Ltd  
 1-28, 5-chome, Chiyoda, Sakado-shi, Saitama Japan 350-0284  
 Phone: +81-49-284-1511    Fax: +81-49-284-1351  
 Emergency Phone : +81-49-284-1511

### Section 2. Hazards identification

#### GHS Classification

Health Hazards	Environmental Hazards	Physical Hazards
No data available	No data available	<b>Substances and mixtures which, in contact with water, emit flammable gases : Not classified</b>

#### GHS Label:

Pictograms or symbols                      No data available

**Warning word:**    Not applicable

#### Hazard information

Not applicable

#### Description of precaution

Not applicable

#### Additional hazard information :

See each section for reference.

### Section 3. Composition / information on ingredients

Chemical or common name:            Tantalum diboride  
 Synonyms:                                    Tantalum boride  
 Chemical formula:                        TaB<sub>2</sub>  
 Single Substance or Compound:        Single substance  
 Composition:                                100%  
 CAS #:                                        12077-35-1  
 RTECS#:                                    No data available.  
 TSCA inventory:                         listed  
 EINECS:                                     2345075

#### **Section 4. First aid measures**

- Eye contact: Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.
- Skin contact: Promptly flush contaminated skin with soap or mild detergent and water. Contact physician if irritation continues.
- Inhalation: Remove the exposed person immediately and provide fresh air. Get medical attention.
- Ingestion: Rinse mouth and throat with water. Get medical attention immediately.

#### **Section 5. Fire fighting measures**

- Extinguishing media: Not applicable. Use media appropriate for surrounding fire.
- Fire fighting: Self-contained breathing apparatus and full protective clothing should be used, if the material is involved in fire.
- Explosion hazards:  
Dust explosion: No data available
- Specific hazards arising from the chemical:  
In case of fire, may liberate toxic gases/ fume.
- Combustion products:  
Fumes of metallic oxides.

#### **Section 6. Accidental release measures**

- Personal Precautions:  
Workers should use protective wears to prevent contact with the spilt adhesive and inhalation of its vapor/dusts..
- Environmental hazard precautions:  
Shut off leak if without risk.  
Prevent flow out to river, etc. so as not to badly affect.
- Method for containment and cleaning up:  
Indoor leakage: Ventilate as much as possible until the cleaning is completed.  
Outdoor leakage: Work from the windward and evacuate the leeward crowd.  
Gather up, pack in closed container as much as possible.  
Carefully collect remnant and move to a safe place.

#### **Section 7. Handling and storage**

##### **Precautions to be taken in handling:**

- Safe handling: Use protective wears and local ventilation equipment, if inhalation or skin contact is foreseen.

##### **Precautions to be taken in storage:**

- General precautions:  
Store in a cool, dry place away from incompatible materials.

#### **Section 8. Exposure controls / personal protection**

- Exposure guideline: ACGIH(2012): No data available  
OSHA (2006): No data available
- Facility measures: (In case of dust generating work )  
Local ventilation of closed work room or total proper ventilation to prevent

inhalation.

Protective ware: Wear appropriate NIOSH/MSHA-approved respirator, safety goggles, face shields, protective gloves.

(In case of dust generating work.)

Wear appropriate NIOSH/MSHA-approved respirator, air-supplied respirator, safety goggles, face shields, protective gloves, protective clothing, apron, including boots.

### Section 9. Physical and chemical properties

Color and Form: Gray solid, odorless.

Chemical formula: TaB<sub>2</sub>

Formula weigh 202.6

Melting point: > 3000

Boiling point: No data available

Density: 11.2 g/cm<sup>3</sup>

Water solubility Insoluble

Flammable: No data available

Oxidation: None

### Section 10. Stability and reactivity

Stability: Stable in closed container.

Reactivity

Incompatibility: No data available

Condition to avoid: No data available

Hazardous decomposition products.:  
Tantalum oxides, boron oxides

### Section 11. Toxicological information

Acute toxicity: GHS : No data available

Skin corrosive / irritation: GHS : No data available

Serious eyes damage / eye irritation: GHS : No data available

Respiratory sensitization: GHS : No data available

Skin sensitization: GHS : No data available

Germ cell mutagenicity: GHS : No data available

Carcinogenicity: GHS : No data available

Toxic to reproduction: GHS : No data available

Specific target organ toxicity  
– single exposure: GHS : No data available

Specific target organ toxicity  
– repeated exposure: GHS : No data available

Aspiration hazard: GHS : No data available

Other cautions : Mechanical stimulation by dust affects eyes, skin and respiratory system

**Section 12. Ecological information**

Ecotoxicity:

Hazards to the aquatic environment

–acute toxicity: GHS : No data available

–chronic toxicity: GHS : No data available

Hazardous to the ozone layer: GHS : No data available

No Freon or Halon

Fish toxicity: No data available

Degradability: No data available

Bioaccumulative potential: B : biological half-life 0.5 day,  
Rate of absorption Oral=0.9 Respiratory tract=0.7

Ta: No data available

Mobility in soil: No data available

**Section 13. Disposal considerations**Disposal method: User of the product should contract with the local government or licensed  
'Industrial Waste Haulers' for disposal of waste.**Section 14. Transport information**

UN classification: Non-hazards

UN number: None

HS code: 2850.00

Marine pollution: None

Precautions: Container should be transported in a secure position, in a well-ventilated vehicle.

**Section 15. Regulatory information**

TSCA inventory : listed.

Please refer to any other local / national measures that may be relevant.

**Section 16. Other information**

The information described above is believed to be correct. However, Kojundo Chemical Lab. makes no representation, warranty nor guarantee of any kind with respect to the information on this data sheet or any use of the product based upon this information.