

## LTS Research Laboratories, Inc. Safety Data Sheet Tantalum Boride

#### 1. Product and Company Identification

Trade Name: Tantalum Boride

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

Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.

Street: 37 Ramland Road
City: Orangeburg
State: New York
Zip Code: 10962
Country: USA

Tel #: 855-587-2436 / 855-lts-chem

24-Hour Emergency Contact: 800-424-9300 (US & Canada)

+1-703-527-3887 (International)

### 2. Hazards Identification

Signal Word: Warning



Hazard Statements: H315 Causes skin irritation

H319 Causes serious eye irritation H335 May cause respiratory irritation

Precautionary Statements: P261 Avoid breathing dust/fume/vapor/gas/mist/spray

P264 Wash skin thoroughly after handling

P271 Use only outdoors or in a well-ventilated area

P280: Wear protective gloves/protective clothing/eye protection/face

protection

P302+P352: IF ON SKIN: Wash with soap and water

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

P312: Call a POISON CENTER or doctor/physician if you feel unwell P332+P313: If skin irritation occurs: Get medical advice/attention P337+P313: If eye irritation persists get medical advice/attention P362: Take off contaminated clothing and wash before reuse 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: 1
Flammability: 0
Physical: 0

3. Composition	
Chemical Family:	Ceramic
Additional Names:	N/A
Tantalum Boride (TaB <sub>2</sub> ):	
Percentage:	100 wt%
CAS #:	12007-35-1
EC #:	234-507-5
	4. First Aid Procedures
General Treatment:	Seek medical attention if symptoms persist.
Special Treatment:	None
Important Symptoms:	None
Inhalation: Ingestion: Skin:	Remove victim to fresh air. Supply oxygen if breathing is difficult.
	Seek medical attention if symptoms persist.
	Give one to two glasses of water. 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
	Research
Extinguishing Media:	No special restrictions—use suitable extinguishing agent for
	surrounding material and type of fire. Do not use water for metal fires use CO <sub>2</sub> , sand, extinguishing powder.
Spec. Fire Fighting Procedure:	Use full-face, self-contained breathing apparatus with full protective
zpovi ne rigiling riocoliu.	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.
Environmental Precautions:	Take care not to raise dust.  Do not let product enter drains and isolate runoff to prevent
	environmental pollution.
	7. Handling and Storage
Handling Conditions:	Wash thoroughly after handling. Avoid contact with skin and eyes.
Tranding Conditions.	avoid formation of dust and aerosols. Provide appropriate exhaust
	ventilation at places where dust is formed.
	Keep container tightly closed in a dry and well-ventilated place.
Storage Conditions:	
	moisture sensitive. Keep in a dry place.
	Do not use tobacco or food in work area. Wash thoroughly before
Storage Conditions: 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
-	Do not use tobacco or food in work area. Wash thoroughly before

## 8. Exposure Controls and Personal Protection

Permissible Exposure Limits: N/A
Threshold Limit Value: N/A

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 Grey

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

Odor:
Water Solubility:
Boiling Point:
Melting Point:
Flash Point:
Autoignition Temperature:
Nodorless
Insoluble
N/A
N/A
N/A
N/A

Density: 11.15 g/cm<sup>3</sup> Molecular weight: 191.76 g/mol

### 10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Strong acids, Strong bases, Water Incompatible Conditions: Avoid moisture

Hazardous Decomposition Products: Borane/boron oxides, Tantalum Oxides

# 11. Toxicological Information

Potential Health Effects:

Eyes:May cause irritationSkin:May cause irritationIngestion:May cause irritationInhalation:May cause 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. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. 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
N/A
N/A
N/A
N/A
13. Disposal Considerations
e, national, and international regulations.
14. Transportation Data
Not hazardous for transportation.
N/A
N/A
N/A
N/A
15. Regulatory Information
No
No 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.

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