

LTS Research Laboratories, Inc. Safety Data Sheet Tungsten Boride

1. Product and Company Identification

Trade Name: Tungsten Boride

Chemical Formula: W_2B_5

Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.

Street: 37 Ramland Road Orangeburg City: State: New York 10962 Zip Code: 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: None

Hazard Statements: None

None. **Precautionary Statements:**

HMIS Health Ratings (0-4):

Health: Flammability: 0 Physical: 0

3. Composition

Chemical Family: **Borides** Additional Names: None

Tungsten Boride (W₂B₅):

Percentage: 0-100 wt% CAS #: 12007-98-6 EC #: ##

0

	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. Seek medical attention.		
Ingestion:	Give one to two glasses of water and induce vomiting. Never induce vomiting or give anything by mouth to an unconscious person. Seek medical attention. Wash affected area with mild soap and water. Remove any		
Skin:			
Eyes:	contaminated clothing. Seek medical attention. Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medica attention.		
	5. Firefighting Measures		
Flammability:	Non-flammable, except as powder		
Extinguishing Media:	No special restrictions – use suitable extinguishing agent for surrounding material and type of fire. Do not use water for metal fires –		
Spec. Fire Fighting Procedure:	use CO ₂ , 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:	al Is Released/Spilled: Wear appropriate respiratory and protective equipment specified i 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 disp Take care not to raise dust.		
Environmental Precautions:	Isolate runoff to prevent environmental pollution.		
	7. Handling and Storage		
Handling Conditions:	Wash thoroughly after handling. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation. Protection light.		
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.		
entilation: Provide sufficient ventilation to maintain concentration at o threshold limit.			

8. Exposure Controls and Personal Protection

Permissible Exposure Limits: 5 mg/m3 as W, time weighted average 3 mg/m3 as W, long-term value Threshold Limit Value:

Special Equipment: None

Respiratory Protection: Dust Respirator Protective Gloves: Rubber gloves

Eve 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: **Odorless** Water Solubility: Insoluble **Boiling Point:** N/A Melting Point: N/A Flash Point: N/A Autoignition Temperature: N/A Density: 15.25 g/cc Molecular weight: 421.76 g/mol

10. Reactivity

Stable under recommended storage conditions. Material is sensitive to Stability:

light.
Strong oxidizing agents Reacts With:

Incompatible Conditions: Exposure to light Metal oxide fume **Hazardous Decomposition Products:**

11. Toxicological Information

Potential Health Effects:

Eyes: May cause irritation Skin: May cause irritation May cause irritation Ingestion: Inhalation: May cause irritation

Chronic: N/A

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

Median Lethal Dose: N/A

N/A Carcinogen:

12. Ecological Information

Aquatic Toxicity: N/A

Persistent Bioaccumulation Toxicity: Insoluble in water

Very Persistent, Very Bioaccumulative: No Notes: N/A

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13. Dis	Josai	Consid	Cranons

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

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Hazardous: Not hazardous for transportation

Hazard Class: N/A
Packing Group: N/A
UN Number: N/A
Proper Shipping Name: N/A

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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