Heeger Materials Inc. Safety Data Sheet Tungsten Boride

1. Product and Company Identification Trade Name: Tungsten boride Chemical Formula and Recommended Use: WB Scientific research and development Heeger Materials Inc. Manufacturer/Supplier: 230 Steele St Street: Denver City: Co State: 80206 Zip Code: **USA** Country: 925-385-8104 Tel #: 800-424-9300 (US & Canada) 24-Hour Emergency Contact: +1-703-527-3887 (International) 2. Hazards Identification Signal Word: None laterials in **Hazard Statements:** None None **Precautionary Statements:** HMIS Health Ratings (0-4): Health: Flammability: 0 Physical: 0 3. Composition Chemical Family: Ceramic Additional Names: None Tungsten boride (WB): 100 wt% Percentage: CAS #: 12007-09-9 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. Ingestion: Seek Medical Attention.

contaminated clothing.

Wash affected area with mild soap and water. Remove any

Skin:

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

Extinguishing Media: No special restrictions – use suitable extinguishing agent for

surrounding material and type of fire.

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: 5 mg/m³ as W, long-term value

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 Silver
Form: Powder
Odor: Odorless
Water Solubility: Insoluble
Boiling Point: N/A
Melting Point: N/A

Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	N/A
Molecular weight:	194.66 g/mol
5	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts With:	Oxidizing agents
Incompatible Conditions: None Ha Metal oxide fume, Boron oxide	azardous Decomposition Products:
	11. Toxicological Information
Potential Health Effects:	
Eyes:	May cause irritation
Skin:	May cause irritation
Ingestion:	May cause irritation
Inhalation:	May cause irritation
Chronic:	Boron affects the central nervous system. Boron poisoning causes
170	depression of the circulation, persistent vomiting and diarrhea,
170	followed by profound shock and coma. The temperature may become
	subnormal and a scarletina form rash may cover the entire body.
20	Tungsten compounds may be irritating to the eyes and respiratory tract
Chronic:	Chronic exposure may result in permanent lung damage.
Signs & Symptoms: N/A Aggravated M	ledical Conditions:
N/A	1910
Median Lethal Dose:	N/A
C	N/A
Carcinogen:	N/A
	subnormal and a scarletina form rash may cover the entire body. Tungsten compounds may be irritating to the eyes and respiratory tract Chronic exposure may result in permanent lung damage. Iedical Conditions: N/A N/A 12. Ecological Information
Aquatic Toxicity:	Low
Persistent Bioaccumulation Toxicity:	No
Very Persistent, Very Bioaccumulative:	No Notes:
N/A	
	13. Disposal Considerations
Dispose of in accordance with local, sta	te, national, and international regulations.
	14. Transportation Data
Sec 302 Extremely Hazardous:	No
Sec 304 Reportable Quantities:	N/A
Sec 313 Toxic Chemicals:	No
Hazardous:	Not hazardous for transportation

	15. Regulatory Information	
Proper Shipping Name:	N/A	
UN Number:	N/A	
Packing Group:	N/A	
Hazard Class:	N/A	

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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According to the content of the