Heeger Materials Inc. Safety Data Sheet Niobium Boride

1. Product and Company Identification	
Trade Name:	Niobium boride
Chemical Formula:	NbB_2
Recommended Use:	Scientific research and development
Manufacturer/Supplier:	Heeger Materials Inc.
Street:	230 Steele St
City:	Denver
State:	CO
Zip Code:	80206
Country:	USA
Tel #:	925-385-8104
24-Hour Emergency Contact:	800-424-9300 (US & Canada)
H	+1-703-527-3887 (International)
14660	2. Hazards Identification
Signal Word:	None
Hazard Statements:	None
Precautionary Statements:	None
HMIS Health Ratings (0-4):	
Health:	1 4/0 >
Flammability:	
Physical:	None None 1 0 1
	3. Composition
Chemical Family:	Ceramic
Additional Names:	Niobium diboride
Niobium boride (NbB ₂):	
Percentage:	0-100 wt%
CAS #:	12007-29-3
EC #:	234-503-3
	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.

Skin: 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

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: N/A

Special Equipment: None

Respiratory Protection:

Protective Gloves:

Eye Protection:

Dust Respirator Not required
Rubber gloves Not required
Safety glasses or goggles

Body Protection: Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

9. Physical and Chemical Characteristics

Color Dark 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: N/A 114.53 g/mol Molecular weight:

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Oxidizing agents

Incompatible Conditions: None Hazardous Decomposition Products:

Boron oxide, Metal oxide fume

11. Toxicological Information

Potential Health Effects:

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

Inhalation: May cause irritation Chronic: N/A

Signs & Symptoms: N/A Aggravated Medical Conditions:

N/A

Median Lethal Dose: N/A

Carcinogen:

12. Ecological Information

Aquatic Toxicity: Low Persistent Bioaccumulation Toxicity: No Very Persistent, Very Bioaccumulative: No Notes:

N/A

Crials Inc 13. Disposal Considerations

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

14. Transportation Data

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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