Heegermaterials

Heeger Materials Inc. Safety Data Sheet Lanthanum Boride

1. Product and Company Identification Trade Name: Lanthanum boride Chemical Formula: LaB₆ Recommended Use: Scientific research and development Manufacturer/Supplier: Heeger Materials Inc. 230 Steele St Denver Street: Zip Code: 80206 Country: US Tel#: 303-210-3823, 925-385-8104 Email: sales@heegermaterials.com 24-Hour Emergency Contact: 800-424-9300 (US & Canada) +1-703-527-3887 (International) 2. Hazards Identification Signal Word: None Hazard Statements: None **Precautionary Statements** None 3r Mater HMIS Health Ratings (0-4 Health: Flammability: Physical: Tals Inc 3. Composition Chemical Family: Ceramic Additional Names: Lanthanum hexaboride Lanthanum boride (LaB₆): Percentage: 100 wt% CAS #: 12008-21-8 EC #: 234-531-6 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. Flush eyes with water, blinking often for several minutes. Remove Eyes:

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. Provide sufficient ventilation to maintain concentration at or below Ventilation: threshold limit. 8. Exposure Controls and Personal Protection Tals Inc Permissible Exposure Limits: N/A Threshold Limit Value: N/A **Special Equipment:** None **Dust Respirator Respiratory Protection:** Protective Gloves: 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 Powder, Granules, Pellets, Sputtering target, Custom parts Form: Odorless Water Solubility: Odor: Insoluble Boiling Point: N/A Melting Point: 2210 °C Flash Point: N/A Autoignition Temperature: 2.61 g/cc Molecular weight: N/A Density:

203.77 g/mol

10. Reactivity		
Stability:	Stable under recommended storage condit	
Reacts With:	Oxidizing agents Incompatible Conditions Metal oxide fume, Flammable gases/vapo	
Hazardous Decomposition Products:	Metal oxide lume, Flammable gases/vapo	rs
	11. Toxicological Information	
Potential Health Effects:		
Eyes:	May cause irritation	
Skin:	May cause irritation	
Ingestion:	May cause irritation	
Inhalation:	May cause irritation	
Chronic:	Lanthanons can cause delayed blood clotti	
	Exposure may also lead to sensitivity to he	
	awareness of odor and taste, and liver dam	_
	nervous system. Boron poisoning causes of	
	persistent vomiting and diarrhea, followed	
	coma. The temperature may become subne	ormal and a scarletina form
	rash may cover the entire body.	
	N/A	
Signs & Symptoms:	N/A N/A	
Aggravated Medical Conditions:		
Median Lethal Dose:	N/A	
Carcinogen:	N/A	
	12. Ecological Information	
Aquatic Toxicity:	Low	
Persistent Bioaccumulation Toxicity:	No	
Very Persistent, Very Bioaccumulative:	No	
Notes:	12. Ecological Information Low No No No N/A	1h
	13. Disposal Considerations	446
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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