

XI'AN FUNCTION MATERIAL GROUP CO., LTD

Material Safety Data Sheet Lanthanum Boride

1. Product and Company Identification

Trade Name: Lanthanum boride

Chemical Formula: LaB₆

Manufacturer/Supplier: XI'AN FUNCTION MATERIAL GROUP CO., LTD

Street: No. 69, Gazelle Valley, High-Tech Zone

City: XI'AN
State: Shaanxi
Zip Code: 710077
Country: China

Tel #: +86-29-88993870/+86-13519132051

2. Hazards Identification

Signal Word: None Hazard Statements: None Precautionary Statements: None

HMIS Health Ratings (0-4):

Health: 1 Flammability: 0 Physical: 0

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.

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. Store in a cool dry place in a tightly sealed container. Store apart from **Storage Conditions:** 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: **Dust Respirator** Rubber gloves Protective Gloves: Eve Protection: Safety glasses or goggles Protective work clothing. Wear close-toed shoes and long **Body Protection:** sleeves/pants. 9. Physical and Chemical Characteristics Color Violet Form: Powder, Granules, Pellets, Sputtering target, Custom parts Odor: **Odorless** Water Solubility: Insoluble **Boiling Point:** N/A Melting Point: 2210 °C Flash Point: N/A Autoignition Temperature: N/A Density: 2.61 g/cc

203.77 g/mol

Molecular weight:

10. Reactivity Stability: Stable under recommended storage conditions Reacts With: Oxidizing agents **Incompatible Conditions:** None **Hazardous Decomposition Products:** Metal oxide fume, Flammable gases/vapors 11. Toxicological Information Potential Health Effects: Eyes: May cause irritation Skin: May cause irritation Ingestion: May cause irritation Inhalation: May cause irritation Lanthanons can cause delayed blood clotting leading to hemorrhages. Chronic: Exposure may also lead to sensitivity to heat, itching, increased awareness of odor and taste, and liver damage. Boron affects the central nervous system. Boron poisoning causes depression of the circulation, persistent vomiting and diarrhea, followed by profound shock and coma. The temperature may become subnormal and a scarletina form rash may cover the entire body. Signs & Symptoms: N/A **Aggravated Medical Conditions:** N/A Median Lethal Dose: N/A N/A Carcinogen: 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, 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

No

N/A

No

Sec 302 Extremely Hazardous:

Sec 304 Reportable Quantities:

Sec 313 Toxic Chemicals:

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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