

Hex Boron Nitride Powder MSDS

MATERIAL SAFETY DATA SHEET

Date Updated: 12/06/2008

1. Section 1 - Product and Company Information

- 1.1. **Product Name:** BORON NITRIDE POWDER,
- 1.2. **Product Number:** MK-hBN-xxx (xxx= particle size)
- 1.3. **Company:**
 - M K Impex Canada
 - Address 6382 Lisgar Drive
 - Mississauga, Ontario L5N 6X1, Canada
 - Technical Phone:** (416)-509-4462
 - Fax:** (905)-824-1259

2. Section 2 - Composition/Information on Ingredient

- 2.1. **Substance Name:** BORON NITRIDE
- 2.2. **CAS #:**10043-11-5
- 2.3. **SARA 313:** No
- 2.4. **Formula:** BN
- 2.5. **CAS #:** 10043-11-5
- 2.6. SARA 313
- 2.7. **RTECS Number:** ED7800000

3. Section 3 - Hazards Identification

- 3.1. **Emergency overview:**
 - 3.1.1. Irritant.
 - 3.1.2. Irritating to eyes and respiratory system.
 - 3.1.3. For additional information on toxicity, please refer to Section 11.

4. Section 4 - First Aid Measures

- 4.1. **Oral exposure**
- 4.2. If swallowed, wash out mouth with water provided person is conscious. Call a physician.
- 4.3. **Inhalation exposure:**
- 4.4. If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.
- 4.5. **Dermal exposure:**
- 4.6. In case of contact, immediately wash skin with soap and copious amounts of water.
- 4.7. **Eye exposure:**
- 4.8. In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

5. Section 5 - Fire Fighting Measures

- 5.1. **Flash point:**
 - 5.1.1. N/A
- 5.2. **Auto-ignition temp:**

- 5.2.1. N/A
- 5.3. **Flammability:**
 - 5.3.1. N/A
- 5.4. **Extinguishing media:**
- 5.5. Suitable: Non-combustible. Use extinguishing media appropriate to surrounding fire conditions.
- 5.6. **Fire-fighting:**
 - 5.6.1. **Protective Equipment:** Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
- 5.7. **Specific Hazard(s):** Emits toxic fumes under fire conditions.
 - 5.7.1. **Exposure hazard(s):**
 - 5.7.2. **Material:** Irritating dust.

6. Section 6 - Accidental Release Measures

- 6.1. **Procedure(s) of personal precaution(s)**
 - 6.1.1. Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.
- 6.2. **Methods for cleaning up**
 - 6.2.1. Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

7. Section 7 - Handling and Storage

- 7.1. **Handling**
 - 7.1.1. User Exposure: Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.
- 7.2. **Storage**
 - 7.2.1. Suitable: Keep container closed. Store in a cool dry place.
- 7.3. **Special requirements**
 - 7.3.1. Hygroscopic.

8. Section 8 - Exposure Controls / PPE

- 8.1. **Engineering controls**
 - 8.1.1. Safety shower and eye bath. Mechanical exhaust required.
- 8.2. **Personal protective equipment**
 - 8.2.1. Other: Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other protective clothing.
- 8.3. **General hygiene measures**
 - 8.3.1. Wash thoroughly after handling.

9. Section 9 - Physical/Chemical Properties

- 9.1. **Appearance**
 - 9.1.1. **Colour:** Cream White
 - 9.1.2. **Form:** Powder
- 9.2. **Molecular Weight:** 24.82 AMU
- 9.3. **pH:** N/A
- 9.4. **BP/BP Range:** N/A
- 9.5. **MP/MP Range:** N/A
- 9.6. **Freezing Point:** N/A
- 9.7. **Vapor Pressure:** N/A
- 9.8. **Vapor Density:** N/A
- 9.9. **Saturated Vapor Conc.:** N/A

- 9.10. **SG/Density:** 2.29 g/cm³
- 9.11. **Bulk Density:** N/A
- 9.12. **Odour Threshold:** N/A
- 9.13. **Volatile%:** N/A
- 9.14. **VOC Content:** N/A
- 9.15. **Water Content:** N/A
- 9.16. **Solvent Content:** N/A
- 9.17. **Evaporation Rate:** N/A
- 9.18. **Viscosity:** N/A
- 9.19. **Surface Tension:** N/A
- 9.20. **Partition Coefficient:** N/A
- 9.21. **Decomposition Temp.:** N/A
- 9.22. **Flash Point:** N/A
- 9.23. **Explosion Limits:** N/A
- 9.24. **Flammability:** N/A
- 9.25. **Auto-ignition Temp:** N/A
- 9.26. **Refractive Index:** N/A
- 9.27. **Optical Rotation:** N/A
- 9.28. **Miscellaneous Data:** N/A
- 9.29. **Solubility:** N/A

10. Section 10 - Stability and Reactivity

- 10.1. **Stability**
 - 10.1.1. **Conditions of Instability:** Moisture.
 - 10.1.2. **Conditions to Avoid:** Moisture.
 - 10.1.3. **Materials to Avoid:** Strong oxidizing agents.
- 10.2. **Hazardous decomposition products**
 - 10.2.1. **Hazardous Decomposition Products:** Nature of decomposition products not known.

11. Section 11 - Toxicological Information

- 11.1. **Route of exposure**
 - 11.1.1. **Skin Contact:** May cause skin irritation.
 - 11.1.2. **Eye Contact:** Causes eye irritation.
 - 11.1.3. **Inhalation:** Material is irritating to mucous membranes and upper respiratory tract.
 - 11.1.4. **Multiple Routes:** May be harmful by inhalation, ingestion, or skin absorption.
- 11.2. **Signs and symptoms of exposure**
 - 11.2.1. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. Section 12 - Ecological Information

- 12.1. No data available.

13. Section 13 - Disposal Considerations

- 13.1. **Appropriate method of disposal of substance or preparation**
 - 13.1.1. Bury in a landfill site approved for the disposal of chemical and hazardous wastes. Observe all federal, state, and local environmental regulations.

14. Section 14 - Transport Information

- 14.1. **DOT**
 - 14.1.1. **Proper Shipping Name:** None
 - 14.1.2. **Non-Hazardous for Transport:** This substance is considered to be non-hazardous for transport.
- 14.2. **IATA**
 - 14.2.1. **Non-Hazardous for Air Transport:** Non-hazardous for air transport.

15. Section 15 - Regulatory Information

- 15.1. **Eu additional classification**
 - 15.1.1. **Symbol of Danger:** Xi
 - 15.1.2. **Indication of Danger:** Irritant.
 - 15.1.3. **R:** 36/37
 - 15.1.4. **Risk Statements:** Irritating to eyes and respiratory system.
 - 15.1.5. **S:** 26-36
 - 15.1.6. **Safety Statements:** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.
- 15.2. **Us classification and label text**
 - 15.2.1. **Indication of Danger:** Irritant.
 - 15.2.2. **Risk Statements:** Irritating to eyes and respiratory system.
 - 15.2.3. **Safety Statements:** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.
- 15.3. **United states regulatory information**
 - 15.3.1. **SARA LISTED:** No
 - 15.3.2. **TSCA INVENTORY ITEM:** Yes
- 15.4. **Canada regulatory information**
 - 15.4.1. **WHMIS Classification:** This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.
 - 15.4.2. **DSL:** Yes
 - 15.4.3. **NDSL:** No

16. Section 16 - Other Information

- 16.1. **Warranty**
 - 16.1.1. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent guarantee of the product.
- 16.2. **4 Lube Limited:**
 - 16.2.1. 4 Lube Limited is the Australasian Distributor, Please contact 4 Lube Limited via their website at www.4lube.co.nz or email them at sales@4lube.co.nz.