Safety Data Sheet

Hazard Information

Hazard information is provided for compliance with both the UK Chemicals (Hazard Information and Packaging) (CHIP) Regulations and the US Hazard Communication Standard (HCS).

Chemical and Company Identification

Product name	Product code	
Boric Acid	GR153-1	*For research use only.*

Supplier

Hoefer, Inc.
84 October Hill Road, Suite 10
Holliston, MA 01746
Phone: 800-227-4750
508-893-8999

Emergency Contact
ChemTel Inc.
800-255-3924 (North America)
1-300-954-583 (Australia)
000-800-100-4086 (India)
800-099-0731 (Mexico)
+1-813-248-0585 (International)
0-800-591-6042 (Brazil)
400-120-0751 (Peoples Republic of China)

Composition / Ingredients

Hazard	CAS No.	EC No.	%WT	Molecular Formula	Molecular Weight
Boric acid	10043-35-2	None	≥100	H_3BO_3	61.83 g/mol

Hazards Identification

Emergency Overview:
WHIMIS: D2B Toxic Material causing Other Toxic Effects; may affect fertility
GHS Classification: Reproductive toxicity (Category 1B)

Pictogram

Signal Word: Danger

Hazard Statements:
H360: May damage fertility or the unborn child.

Precautionary Statement:
P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P308+P313: If exposed or concerned, get medical advice/attention.

Potential Health Effects:
Inhalation: May be harmful if inhaled.
Skin: May be harmful if absorbed through skin.
Eyes: May cause eye irritation.
Ingestion: May be harmful if swallowed.

First Aid Measures

Eyes: Flush eyes with water for at least 15 minutes. If irritation persists, get medical attention.
Skin: Flush area immediately with plenty of soap and water.
Inhalation: Remove victim to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms persist.
Ingestion: Wash mouth with water.

Fire-Fighting Measures

General Information: Always wear full protective gear in the event of a fire. Toxic gases and vapors may be generated by decomposition or combustion. Excessive dust in combination with air can create an explosive mixture.
Flammable: No
Flash Point: N/A
Autoignition Temperature: N/A
Extinguishing Media: Use water spray, foam, dry chemical or carbon dioxide.
Explosion Data: Not available.

Accidental Release Measures

Ventilate the area. Wear appropriate protective equipment. Sweep and place in a closed container. In the event of a fire always wear self-contained breathing apparatus, NIOSH/MSHA approved or equivalent.

Leak and Spill Procedures: Ventilate the area. Wear appropriate protective equipment. Cover with dry lime or soda. Sweep and place in a closed container. Avoid generating dust.

Handling and Storage

Handling: Avoid contact. Do not get in eyes, on skin, or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse. Minimize dust generation.
Storage Conditions: Room temperature

Exposure Controls/Personal Protection

Exposure limits: TWA 2 mg/m^3, STEL 6 mg/m^3
Use adequate ventilation. Avoid dust generation.
Wear appropriate protective equipment to prevent eye and skin exposure.
Wear appropriate respirator to prevent lung irritation.
Personal Protection: Lab coat, safety goggles, rubber gloves
Ventilation: Use appropriate exhaust ventilation.
Respiratory protection: Use OSHA/MSHA dust masks.

Physical and Chemical Properties

Physical State: Solid
Appearance and Odor: White powder, odorless
Melting Point: 169°C
Boiling Point: N/A
Specific Gravity: N/A
Vapor Density: N/A
Solubility: Soluble in water (4.9 g/100 g water)
pH: 3.6 (4% water solution)

Stability and Reactivity

Stability: Stable under normal temperatures and pressure.
Conditions to Avoid: Dust generation, excess heat
Incompatibility: Strong oxidizing agents, potassium
Hazardous Decomposition Products: Boron oxides
Hazardous Polymerization: Will not occur.

Toxicological Properties

Exposure Limits:
LD_{50} / LC_{50}:
Oral, mouse LD_{50} = 3,450 mg/kg
Oral, rat, LD_{50} = 2,260 mg/kg

Epidemiology: No data available.
Teratogenicity: Developmental effects observed in rats.
Reproductive Effects: Caused damage to testes, sperm production in rats and dogs.
Neurotoxicity: No data available.
Mutagenicity: No data available.
Carcinogenicity: Not listed by ACGIH, IARC, NTP or OSHA.

Ecological Information

Toxicity: No information found.

Disposal Considerations

Waste Disposal: Burn in chemical incinerator. Observe all Federal, provincial, and local regulations.

Transportation Information

Shipping Information:
US DOT: Not dangerous
IMDG: Not dangerous
IATA: Not dangerous

Regulatory Information

US: TSCA listed
Canada: WHMIS D2B

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