

# SAFETY DATA SHEET

## BORIC ACID

### SECTION 1: CHEMICAL AND COMPANY IDENTIFICATION

**BioShop Canada Inc.**  
5480 Mainway  
Burlington, Ontario L7L 6A4  
1-800-234-1179  
Emergency Telephone No.: 1-905-466-3832  
Chemical Name: Boric acid  
Catalog Number: BOR001/BOR002/BOR003  
Recommended use: for research purposes only

### SECTION 2 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

### SECTION 3 COMPOSITION/ INGREDIENTS

	CAS #	%
Boric acid	10043-35-2	≥100

Molecular Formula: H3BO3  
Molecular Weight: 61.83 G/MOL

### SECTION 4 FIRST AID MEASURES

**Eyes:** Flush eyes with plenty of 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.

### SECTION 5 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

### SECTION 6 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.

### SECTION 7 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.

### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure limits:**  
TWA 2mg/m3, STEL 6mg/m3  
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 approved dust masks.

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Solid

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## BORIC ACID

**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 (4.9g/100g water)

**pH:** 3.6 (4% water soln.)

**Molecular Formula:** H<sub>3</sub>BO<sub>3</sub>

**Molecular Weight:** 61.83

**US:** TSCA: listed

**Canada:** WHMIS: D2B

### SECTION 16 ADDITIONAL INFORMATION

Prepared By: M.Kierdelewicz (President)

Date Prepared: Oct 6/2022

Phone: (800) 234-1179

The information provided on this Material Safety Data Sheet is furnished in good faith and without warranty of any kind. The above information is believed to be correct and should be used only as a guide. BioShop Canada Inc. shall not be held liable for any damage resulting from the handling or from the contact with the above product. Observe all federal, provincial and state laws concerning health, safety and pollution.

### SECTION 10 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

### SECTION 11 TOXICOLOGICAL PROPERTIES

#### Exposure Limits:

LD<sub>50</sub> / LC<sub>50</sub>:

#### Exposure Limits:

LD<sub>50</sub> / LC<sub>50</sub>:

Oral, mouse : LD<sub>50</sub>: 3450 mg/kg

Oral rat: LD<sub>50</sub>: 2660mg/kg

**Epidemiology:** No data available

**Teratogenicity:** Developmental effects observed in mice

**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

### SECTION 12 ECOLOGICAL INFORMATION

#### Toxicity:

No information found.

### SECTION 13 DISPOSAL CONSIDERATION

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

### SECTION 14 TRANSPORT INFORMATION

#### Shipping Information:

DOT (US): not dangerous

IMDG: not dangerous

IATA: not dangerous

### SECTION 15 REGULATORY INFORMATION