

MATERIAL SAFETY DATA SHEET

BORIC ACID

I IDENTIFICATION:

BioShop Canada Inc.
5480 Mainway
Burlington, Ontario L7L 6A4
1-800-234-1179

Emergency Telephone No.: 905-466-3832
Chemical Name: Boric Acid
Catalog Number: BOR001/BOR002/BOR003
Molecular Formula: H₃BO₃
Molecular Weight: 61.83
WHMIS Classification: D2B, D2A
TSCA Status: Not listed on the TSCA Inventory

II HAZARDOUS INGREDIENTS:

	CAS #	RTECS #	%
Boric Acid	10043-35-3	SF7950000	100%

Not listed on the TSCA inventory.

III HAZARDS/TOXICOLOGICAL PROPERTIES:

Potential Health Effects

Target Organs: Respiratory system, eyes, skin

Eyes: Causes eye irritation. Causes redness and pain.

Skin: Causes skin irritation.

Inhalation: Causes respiratory tract irritation. The toxicological properties of this substance have not been fully investigated. Harmful if inhaled.

Ingestion: Harmful if swallowed. May cause irritation of the digestive tract. May cause Central Nervous System effects.

CHRONIC HEALTH HAZARDS: May cause dermatitis. May cause reproductive effects.

Exposure Limits:

LD50 / LC50:

Oral, mouse : LD50: 3450 mg/kg

Oral rat: LD50: 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

IV FIRST AID MEASURES:

Eyes: Flush eyes with plenty of water for at least 15 minutes. GET MEDICAL ATTENTION

Skin: Flush area immediately with plenty of soap and water while removing contaminated clothing and shoes. GET MEDICAL ATTENTION.

Inhalation: Remove victim to fresh air. If not breathing give artificial respiration. If breathing is difficult give oxygen and GET MEDICAL ATTENTION.

Ingestion: Wash mouth with water. GET MEDICAL ATTENTION IMMEDIATELY.

V FIRE AND EXPLOSION HAZARDS:

Flammable: No

Flash Point: N/A

Extinguishing Media: Water, dry chemical, chemical foam or alcohol resistant foam.

Explosion Data: Not available

VI REACTIVITY:

Stability: Stable under normal temperatures and pressure. Will form boric oxide upon significant heating.

Conditions to avoid; dust generation

Incompatibility: Strong reducing agents Could pose an explosion risk with contact to metal hydrides and alkali metals

Hazardous Decomposition Products: Oxides of boron

Hazardous Polymerization: Will not occur

VII PHYSICAL DATA:

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 (4.9g/100g water

pH: 3.6 (4% water soln.)

VIII PREVENTIVE MEASURES:

Personal Protection: Wear appropriate protective gloves and clothes to prevent skin exposure.

Ventilation: Local exhaust systems.

Respiratory protection: Use NIOSH/MSHA approved full face-piece respirator.

Leak and Spill Procedures: Wear appropriate protective equipment. Sweep up then place into a suitable container for disposal.

Waste Disposal: Follow local disposal regulations.

Storage Conditions: Store in a cool, dry place. Store in a tightly closed container.

Label Hazard Warning: Harmful and Irritating to eyes, respiratory system and skin. **Shipping Information:** Not Regulated

IX PREPARATION OF MSDS:

Prepared By: M. Kierdelewicz (President)

Date: Dec 14/2011

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.