

MSDS

BORIC ACID, 4% (w/v) Aqueous Solution with Bromocresol Green-Methyl Red Indicator

## Material Safety Data Sheet

### Section 1: Chemical Product and Company Identification

<b>Catalog Number:</b> 1070	
<b>Product Identity:</b> BORIC ACID, 4% (w/v) Aqueous Solution with Bromocresol Green-Methyl Red Indicator	
<b>Manufacturer's Name:</b> RICCA CHEMICAL COMPANY LLC	<b>Emergency Contact(24 hr) -- CHEMTREC®</b> Domestic: 800-424-9300 International: 703-527-3887
<b>CAGE Code:</b> 0V553	
<b>Address:</b> 448 West Fork Dr Arlington, TX 76012	<b>Telephone Number For Information:</b> 817-461-5601
<b>Date Prepared:</b> 10/19/98	<b>Revision: 4</b> Last Revised: 07/27/2006 Date Printed: 11/01/2006 10:53:11 am

### Section 2. Composition/Information on Ingredients

Component	CAS Registry #	Concentration	ACGIH TLV	OSHA PEL
Boric Acid	10043-35-3	3 - 5	Not Available Not Available	Not Available Not Available
Bromocresol Green, Sodium Salt	62625-32-5	<0.01	Not Available Not Available	Not Available Not Available
Water, Deionized	7732-18-5	Balance	Not Available Not Available	Not Available Not Available
Methyl Red, Sodium Salt	845-10-3	< 0.01	Not Available Not Available	Not Available Not Available

### Section 3: Hazard Identification

**Emergency Overview:** Non-flammable, non-toxic, non-corrosive. Does not present any significant health hazards. Wash areas of contact with water.

**Target Organs:** eyes, skin

**Eye Contact:** May cause slight irritation.

**Inhalation:** Not likely to be hazardous by inhalation.

**Skin Contact:** May cause slight irritation.

**Ingestion:** Large doses may cause stomach upset.



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**Chronic Effects/Carcinogenicity:** None

**IARC** - No.

**NTP** - No.

**OSHA** - No.

**Reproductive Information:** Reproductive effects cited in 'Registry of Toxic Effects of Chemical Substances' for Boric Acid.

**Teratology (Birth Defect) Information:** Mutation data cited in 'Registry of Toxic Effects of Chemical Substances' for Methyl Red, Sodium Salt. Mutation data cited in 'Registry of Toxic Effects of Chemical Substances' for Boric Acid.

### Section 4: First Aid Measures - In all cases, seek qualified evaluation.

**Eye Contact:** Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops.

**Inhalation:** Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen.

**Skin Contact:** Flush with plenty of water for at least 15 minutes. Call a physician if irritation develops.

**Ingestion:** Dilute with water or milk. Do not induce vomiting. Call a physician if necessary.

### Section 5: Fire Fighting Measures

**Flash Point:** Not Available.

**LFL:** Not Available.

**Extinguishing Media:** Use any means suitable for extinguishing surrounding fire.

**Fire & Explosion Hazards:** Not considered to be a fire or explosion hazard.

**Fire Fighting Instructions:** Use normal procedures/instructions.

**Fire Fighting Equipment:** Use protective clothing and breathing equipment appropriate for the surrounding fire.

**Method Used:** Not Available.

**UFL:** Not Available.

### Section 6: Accidental Release Measures

Dilute with water, then flush to sewer if local regulations allow. If not allowed, save for recovery or recycling in an approved waste disposal facility. Always dispose of in accordance with local, state and federal regulations.

### Section 7: Handling and Storage

As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage.

**Safety Storage Code:** General

### Section 8: Exposure Control/Personal Protection

**Engineering Controls:** No specific controls are needed. Normal room ventilation is adequate.

**Respiratory Protection:** Normal room ventilation is adequate.

**Skin Protection:** Chemical resistant gloves.

**Eye Protection:** Safety glasses or goggles.

### Section 9: Physical and Chemical Properties

**Appearance:** Clear, reddish-orange colored liquid

**Odor:** Odorless

**Solubility in Water:** Infinite

**Specific Gravity:** Approximately 1

**pH:** Not Available.

**Boiling Point(°C):** Approximately 100

**Melting Point(°C):** Approximately 0

**Vapor Pressure:** Not Applicable.

### Section 10: Stability and Reactivity

**Chemical Stability:** Stable under normal conditions of use and storage.

**Incompatibility:** Alkalies, Hydroxides

**Hazardous Decomposition Products:** None expected

**Hazardous Polymerization:** Will not occur.



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### Section 11. Toxicological Information

LD50, Oral, Rat: (Boric Acid) 2660 mg/kg; LdLo, Oral, Woman: 200 mg/kg (Boric Acid)  
No information found on Methyl Red Sodium Salt or Bromocresol Green Sodium Salt in RTECS.

### Section 12. Ecological Information

**Ecotoxicological Information:** Harmful to boron-sensitive plants in higher quantities, although boron is an essential micronutrient for healthy growth of plants.  
**Chemical Fate Information:** Boric Acid decomposes in the environment to natural borate. This product is leachable through normal soil.

### Section 13. Disposal Considerations

Dilute with water, then flush to sewer if local regulations allow. If not allowed, save for recovery or recycling in an approved waste disposal facility. Always dispose of in accordance with local, state and federal regulations.

### Section 14. Transport Information

Part Numbers:

This product is not regulated.

### Section 15. Regulatory Information (Not meant to be all inclusive - selected regulation represented)

**OSHA Status:** The above items either do not contain any specifically hazardous material or the potentially hazardous material is present in such low concentration that the items do not present any immediate threat to health and safety. These items do not meet the OSHA Hazard Communication Standard (29 CFR 1910.1200) definition of a hazardous material.

**TSCA Status:** All components of this solution are listed on the TSCA Inventory or are mixtures (hydrates) of items listed on the TSCA Inventory.

Sara Title III:

**Section 302 Extremely Hazardous Substances:** Not Applicable.

**Section 311/312 Hazardous Categories:** No

**Section 313 Toxic Chemicals:** Not Applicable.

**California:** None Reported.

**Pennsylvania:** None Reported.

**RCRA Status:** Not Applicable.

**CERCLA Reportable Quantity:** None Reported.

**WHMIS:** Not Applicable.





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### Section 16. Other Information

#### NFPA Ratings:

Health: 1                      Flammability: 0                      Reactivity: 0                      Special Notice Key:None

#### HMIS Ratings:

Health: 1                      Flammability: 0                      Reactivity: 0                      Protective Equipment:B (Protective Eyewear, Gloves)

Rev 1, 12-2-99: Reformatted from WordPerfect® to Microsoft Word®; (Section 7) Added safety storage code;

Rev 2, 3-27-2000: (Section 1) Revised emergency telephone number to CHEMTREC® 800-424-9300.

Rev 3, 10-09-2001: Reformatted to electronic data format.

Rev 4, 07-27-2006: (Section 1) corrected concentration of Boric Acid from 1.9 - 2.1%.

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and RICCA CHEMICAL COMPANY assumes no legal responsibility or liability whatsoever resulting from its use.