

## MATERIAL SAFETY DATA SHEET

### SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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- **Product name:** **BORIC ACID**
- **Manufacturer:** Deep South Chemical, Inc.  
229 Millstone Road  
Broussard, LA 70518 (337) 837-9931
- **For Emergency :** Call **CHEMTREC 1-800-424-9300**  
Outside the U.S.A. (703)-527-3887
- **Chemical Family:** ACID
- **Contact Person:** Glenn Ray
- **Formula:** H<sub>3</sub>BO<sub>3</sub>
- **MSDS Revised:** January 1, 2014

### SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

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Hazardous components	CAS Number	%	PEL(OSHA)		TLV(ACGIH)		IDLH
			TWA	STEL	TWA	STEL	
Boric Acid	10043-35-3	100	N/E	N/E	10mg/m <sup>3</sup> (Total dust)	N/E	
					5mg/m <sup>3</sup> (Respirable dust)		

### SECTION 3. HAZARDS IDENTIFICATION, INCLUDING EMERGENCY OVERVIEW

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**Effects of overexposure:**

**Inhalation:** Irritant

**Eye Contact:** Can burn the eye cornea

**Skin Contact:** Irritating to skin. Toxic if absorbed through skin.

**Ingestion:** Irritation of the mouth, throat, and digestive tract.

### SECTION 4. FIRST AID MEASURES

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**Eyes:** Move victim away from exposure and into fresh air. If irritation persists, seek medical attention. For direct exposure, flush with clean water for 15 minutes. Hold eyelids apart to ensure flushing of the entire eye surface.

**Inhalation:** Move victim away from source of exposure and into fresh air. If irritation persists, seek medical attention. If victim is not breathing, artificial respiration should be administered.

**Skin:** Remove contaminated clothes. Cleanse affected area thoroughly with soap and water. If irritation persists, seek medical attention. Wash contaminated clothing.

**Ingestion:** Drink plenty water. Do not induce vomiting. If victim is drowsy or unconscious, place on left side with head down. Seek medical attention.

### SECTION 5. FIRE FIGHTING MEASURES

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**Fire fighting measures:** Use powder, foam, or CO<sub>2</sub> to extinguish fire.

**Special Fire Fighting Procedures:** Water spray to cool drums.

**Explosive Properties:**

**LEL:** N/D

**UEL:** N/D

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

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**Steps to be taken if material is released or spilled:** Use proper personal protective equipment. Stay upwind from spill. For small dry spills, carefully scoop material into suitable containers for later disposal. Vacuuming (with appropriate filter) may minimize dust dispersion. For small solution spills, take up with earth, sand, vermiculite, or other absorbent, noncombustible material. For large spills, dike far ahead of liquid spills for later disposal.

**Waste disposal method:** Dispose of according to local, state and federal regulations in an approved disposal facility or recycling facility.

**SECTION 7. HANDLING AND STORAGE**

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**Storage:** Store in a well-ventilated area. Keep container tightly closed when not in use. Store in cool, dry area. Keep away from sources of ignition.

**Handling:** Use proper personal protective equipment. Avoid contact with skin or eyes. Avoid breathing of vapors. Handle in well-ventilated workspace. When handling do not eat, drink, or smoke.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**Ventilation:** Keep work area well ventilated.

**Protective clothing:** Impermeable gloves and impervious clothing as appropriate.

**Eye protection:** Chemical goggles where splashing may occur.

**Respiratory Protection:** Use appropriate respiratory protection when handling or in case of insufficient ventilation.

**Special Protection:** Safety shower, eye bath, and washing facilities should be available.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

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**Specific gravity @ 75°F (H<sub>2</sub>O = 1):** 1.435

**Flash Point:** >200°F

**Vapor density (Air = 1):** N/D

**Solubility:** 4.9g/100g water @ 68°F

**Vapor pressure @ 70°F:** 15 mm Hg

**Evaporation Rate:** N/D

**Appearance and Odor:** Fine or granular white powder or colorless crystals with no odor.

**Melting Point:** 339-356°F

**Freezing Point:** N/D

**Percent Volatile by Volume:** N/D

**pH:** Approximately 5.2 in a 1% aqueous solution.

**Auto-ignition:** N/D

**SECTION 10. STABILITY AND REACTIVITY**

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**Stability and Reactivity:** Stable in normal conditions.

**Incompatibility/Materials:** This material reacts with basic materials such as alkali carbonates and hydroxides to form borate salts. A mixture of potassium and boric acid may explode on impact. When it is mixed with acetic anhydride, it can react violently when heated to 136-140°F.

**Hazardous Decomposition Products:** Smoke, carbon oxides.

**Hazardous polymerization:** Will not occur.

**SECTION 11. TOXICOLOGICAL INFORMATION**

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**Hazardous Ingredients:** Irritating to eyes, respiratory tract, and skin.

**Immediate Health Effects:** Irritation.

**Delayed Health Effects:** Inflammation of skin with frequent or prolonged skin contact.

**SECTION 12. ECOLOGICAL INFORMATION**

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**Environmentally Dangerous Ingredients:** None  
**Persistence and Degradability:** All the components are biodegradable.  
**Ecotoxicity Values:** Mosquito fish, TLm=N/D  
Fathead minnow, LC<sub>50</sub>= N/D  
Bluegill, TLm= N/D

**SECTION 13. DISPOSAL CONSIDERATIONS**

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**Disposal of waste materials:** Incinerate or in compliance with local, state, and federal regulations.  
**Disposal of waste containers:** Recycle, clean out residues.

**SECTION 14. TRANSPORT INFORMATION**

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**DOT transport information:** Non-Regulated

**SECTION 15. REGULATORY INFORMATION**

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**Toxic Substances Control Act (TSCA):** All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

**CERCLA RQ-40 CFR 302.4(a)**

<u>Component</u>	<u>CERCLA RQ (lbs)</u>
None	

**SARA 302 Components-40 CFR 355 Appendix A**

<u>Component</u>	<u>TPO(Threshold Planning Quantity) (lbs)</u>
None	

**Section 311/312 Hazard Class-40 CFR 370.2**

**Immediate (X)**  
**Delayed ( )**  
**Fire ( )**  
**Reactive ( )**  
**Sudden Release of Pressure ( )**

**SARA 313-40 CFR 372.65**

<u>Component</u>	<u>CAS Number</u>	<u>%</u>
None		

**SECTION 16. OTHER INFORMATION**

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**NFPA RATING: Health (0) Fire (0) Reactivity (0)**

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N/D= No data; N/A = Not available; N/E= Not established