



# American International Chemical, Inc.

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## MATERIAL SAFETY DATA SHEET

### BORIC ACID

#### SECTION 1 - CHEMICAL PRODUCT AND COMPANY INFORMATION

American International Chemical, Inc. 135 Newbury Street Framingham, MA 01701	Emergency Number: Chemtrec Information Number:	800-424-9300 703-527-3887 800-238-0001
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Date: August 2007

Synonyms: Boracic Acid; Orthoboric Acid

CAS #: 10043-35-3

DOT Hazard Class: Not Regulated

#### SECTION 2 - COMPOSITION AND INFORMATION ON INGREDIENTS

Boric Acid

#### SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: White odorless powder that is not flammable, combustible or explosive and has a low acute oral and dermal toxicity.

POTENTIAL HEALTH EFFECTS:

**Skin:** May cause skin irritation.

**Eyes:** May cause irritation or burning.

**Inhalation:** May cause irritation to the respiratory tract.

**Ingestion:** Not a hazard with normal industrial usage.

CARCINOGENICITY: Not identifiable

#### SECTION 4 - FIRST AID MEASURES

**Skin:** Immediately wash skin with soap and water for at least 15 minutes.

**Eyes:** Immediately flush with plenty of water for at least 15 minutes, holding eye lids apart.

**Inhalation:** Remove to the fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

**Ingestion:** Wash out mouth with water.

Boric Acid

**On All Of The Above:** Consult a physician if symptoms persist.

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### **SECTION 5 - FIRE FIGHTING MEASURES**

Flash Point: Non combustible (Dry product)

Flammable Limits: Non combustible (Dry product)

Extinguishing Media: Use media that is appropriate to treat surrounding fire.

Special Fire Fighting Procedures: Use fire fighting procedure that is appropriate to treat surrounding fire. All firefighters should use self-contained breathing apparatus and full fire-fighting turn-out gear.

Unusual Fire Explosion Hazard: None Identified

Auto Ignition Temperature: Not Applicable

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### **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

Isolate hazard area and deny entry to unnecessary or unprotected personnel.

Contain spill, sweep up, collect and place in a disposal container. Avoid runoff into storm sewers and ditches which lead to waterways.

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### **SECTION 7 - HANDLING AND STORAGE**

Avoid contact with skin, eyes and clothing. Use with adequate ventilation. Avoid breathing dust. Use normal personal hygiene and housekeeping. Store in cool dry area away from other incompatible materials. Product is slightly hygroscopic and should be stored in a dry area to prevent moisture pick up and caking.

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### **SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION**

RESPIRATORY PROTECTION: None required where adequate ventilation conditions exist. If airborne concentration is high, use an appropriate respirator or dust mask.

VENTILATION REQUIREMENTS: Ventilate as necessary to eliminate dust from the work area and maintain concentrations below the limit.

### **SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION cont'd**

SKIN AND EYE PROTECTION:

Use rubber or neoprene gloves, chemical goggles and clothing sufficient to protect skin from dust.

WORK, HYGIENIC PRACTICES:

As required to protect skin and eyes from dust, safety showers and/or eye wash should be available. Do not leave food or smoke in work area. Wash thoroughly and remove or clean any contaminated clothing.

EXPOSURE LIMITS: Treated as "Particles not otherwise classified" or "Nuisance Dust".  
OSHA/PEL 15 mg/m<sup>3</sup> total dust and 5 mg/m<sup>3</sup> respirable dust.

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## **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Boiling Point: Not Applicable

Vapor Pressure (MM Hg): Negligible @ 20°C

Vapor Density (AIR=1): Not Applicable

Specific Gravity (H<sub>2</sub>O=1): 1.51

Percent Volatile by Volume (%): 0 (21°C)

Melting Point: 171°C (339°F)

Evaporation Rate (Butyl Acetate=1): Not Applicable

Solubility in Water: Moderate

pH: 5.1 @ 1.0% solution

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## **SECTION 10 - STABILITY AND REACTIVITY**

CHEMICAL STABILITY: Stable under normal temperatures and pressures.

CONDITIONS TO AVOID: Moisture, heat.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: None

KEEP AWAY FROM: Reaction to strong reducing agents such as metal hydrides or alkali metals.

INCOMPATIBLES: Potassium, strong bases.

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## **SECTION 11 - TOXICOLOGICAL INFORMATION**

Oral Rat LD <sub>50</sub> for Boric Acid	2660 mg/kg
Oral Mouse LD <sub>50</sub> for Boric Acid	3450 mg/kg
Subcutaneous Rat LD <sub>50</sub> for Boric Acid	1400 mg/kg
Intravenous Rat LD <sub>50</sub> for Boric Acid	1330 mg/kg

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## **SECTION 12 - ECOLOGICAL INFORMATION**

Not available

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**SECTION 13 - DISPOSAL CONSIDERATIONS**

Dispose of in accordance with all federal, state and local regulations.

RCRA WASTE #: Not Listed

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**SECTION 14 - TRANSPORTATION INFORMATION**

D.O.T. SHIPPING NAME:.....Boric Acid

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**SECTION 15 - REGULATORY INFORMATION**

OSHA STATUS: Not Listed

TSCA STATUS: Listed

CERCLA REPORTABLE REQUIREMENTS: (RQ) None

SARA TITLE III INFORMATION:

Section 302 Extremely Hazardous Substance: Unlisted

Section 313 Toxic Chemicals: Unlisted

Section 311/312 Hazard Category: Not Considered a Hazard.

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**SECTION 16 - OTHER INFORMATION**

Reason for Issue: Changed Date

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