

**Safety Data Sheet (SDS)**

**SDS #:** 125

**Revision Date:** March 24, 2014

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SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Boric Acid**

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261  
Chemtrec Emergency Phone Number: (800) 424-9494

**Signal Word**   
**DANGER**

SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Acute toxicity, oral (Category 5). May be harmful if swallowed (H303).  
  
Hazard class: Reproductive toxicity (Category 1). May damage fertility or the unborn child (H360). Obtain special instructions before use (P201). Do not handle until all safety precautions have been read and understood (P202). Use personal protective equipment as required (P281).

Pictograms



SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

| **Component Name** | **CAS Number** | **Formula** | **Formula Weight** | **Concentration** |
| --- | --- | --- | --- | --- |
| Boric acid | 10043-35-3 | H3BO3 | 61.83 |  |

SECTION 4 — FIRST AID MEASURES

**If exposed or concerned:** Get medical advice or attention (P308+P313).  
**If inhaled:** Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
**If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.  
**If on skin:** Wash with plenty of water.  
**If swallowed:** Rinse mouth. Call a POISON CENTER or physician if you feel unwell.  
Call a POISON CENTER or physician if you feel unwell (P312).

SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable, noncombustible solid.  
When heated to decomposition, may emit toxic fumes.  
In case of fire: Use a tri-class dry chemical fire extinguisher.

**NFPA Code**

None established

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Sweep up the spill, place in a sealed bag or container, and dispose. Ventilate area and wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Inorganic #9. Store with acids, except nitric acid.  
Store in a cool, dry place.

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection. Wash hands thoroughly after handling.  
Exposure guidelines: TLV 2 mg/m3 (inhalable fraction) (ACGIH)

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

White , crystalline powder. Odorless.  
Soluble: Water, alcohol, and glycerol

Melting point: 185 °C  
Specific gravity: 2.46

SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with potassium and acid anhydrides.  
Shelf life: Indefinite, if stored properly.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Irritant.  
Chronic effects: N.A.  
Target organs: N.A.

ORL-RAT LD50: 2660 mg/kg  
IHL-RAT LC50: N.A.  
SKN-RBT LD50: N.A.

SECTION 12 — ECOLOGICAL INFORMATION

Data not yet available.

SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply before proceeding.  
Flinn Suggested Disposal Method #24b is one option.

SECTION 14 — TRANSPORT INFORMATION

Shipping name: Not regulated. Hazard class: N/A. UN number: N/A.

SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (233-139-2).

SECTION 16 — OTHER INFORMATION

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N.A. = Not available, not all health aspects of this substance have been fully investigated.   
N/A = Not applicable