



# SAFETY DATA SHEET

ProChemOnline.com



## SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Boric Acid**

PRODUCT NUMBER: 1279

CAS NUMBER: 10043-35-3

### MANUFACTURER:

ProChem, Inc.  
826 Roosevelt Road  
Rockford, IL 61109

PHONE: 815-398-1788  
FAX: 815-398-1810  
TOLL FREE: 800-795-8788

IN CASE OF TRANSPORTATION EMERGENCY CONTACT CHEM-TREC: 1-800-424-9300

## SECTION 2 HAZARDS IDENTIFICATION

### CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

**Danger**

### Hazard Statements

|      |  |
|------|--|
| H360 | May damage fertility or the unborn child.            |
| H361 | Suspected of damaging fertility or the unborn child. |

### Precautionary Phrases

|           |  |
|-----------|--|
| P202      | Do not handle until all safety precautions have been read and understood.  |
| P280      | Wear protective gloves/protective clothing/eye protection/face protection. |
| P281      | Use personal protective equipment as required.                             |
| P308+P313 | If exposed or concerned: Get medical advice/attention.                     |
| P2501     | Dispose of contents/container to an approved waste disposal plant.         |

### HMS CLASSIFICATION:

Health: 1      Chronic: \*      Fire: 0      Reactivity Hazard: 0

### NFPA RATING:

Health: 1      Flammability: 0      Reactivity Hazard: 0

**EYE CONTACT:** May cause irritation of the eyes.

**SKIN CONTACT:** May cause irritation of the skin.

**INHALATION:** May cause irritation of the respiratory tract.

**INGESTION:** May cause irritation if swallowed.

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: H<sub>3</sub>BO<sub>3</sub>

Molecular Weight: 61.83

| CHEMICAL NAME | CAS#       | %   |
|---------------|------------|-----|
| Boric Acid    | 10043-35-3 | 100 |

## SECTION 4 FIRST AID MEASURES

**EYE EXPOSURE:** Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

**SKIN EXPOSURE:** Wash affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

**INHALATION:** Remove to fresh air and keep at rest. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases, seek immediate medical assistance.

**INGESTION:** Seek medical assistance immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

## SECTION 5 FIREFIGHTING MEASURES

**FLASH POINT:** Product is not flammable

**AUTO IGNITION TEMPERATURE:** Not available

**EXPLOSION LIMITS:** Not available

**EXTINGUISHING MEDIUM:** Use fire fighting measures that suit the surrounding fire.

**SPECIAL FIRE FIGHTING PROCEDURES:** Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.

**HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:** Boron oxide

## SECTION 6 ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** Wear all appropriate equipment when using this material. Ensure adequate ventilation. Avoid the formation of dust. Avoid breathing vapors, mist, gas, or dust.

**ENVIRONMENTAL PRECAUTIONS:** Prevent spillage from entering drains or allowing to be released into the environment.

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:** Pick up and arrange disposal without creating dust. Sweep up and keep in suitable, closed containers for disposal.

## SECTION 7 HANDLING AND STORAGE

**PRECAUTIONS FOR SAFE HANDLING:** Wear appropriate personal protective equipment. Use with adequate ventilation. Avoid contact with skin and eyes. Avoid formation of dust.

**CONDITIONS FOR SAFE STORAGE:** Store in cool, dry, and well-ventilated area. Moisture sensitive. Store away from oxidizing agents.

## SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

### EXPOSURE CONTROLS:

| Component  | Exposure Limits                           | Basis | Entity |
|------------|---|-------|--------|
| Boric Acid | 6* mg/m <sup>3</sup> 2* mg/m <sup>3</sup> | TLV   | ACGIH  |

\* as inhalable fraction

TLV: Threshold Limit Value over 8 hours of work.

**EYE PROTECTION:** Wear chemical safety glasses or goggles and face shield.

**SKIN PROTECTION:** Wear nitrile or rubber gloves, apron, or lab coat.

**VENTILATION:** Provide local exhaust, preferably mechanical.

**RESPIRATOR:** Use an approved respirator.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**COLOR AND FORM:** White solid  
**ODOR:** None  
**MOLECULAR WEIGHT:** 61.83  
**BOILING POINT:** 300° C  
**MELTING POINT:** 160°C  
**SPECIFIC GRAVITY:** 1.44  
**SOLUBILITY IN WATER:** Soluble

## SECTION 10 STABILITY AND REACTIVITY

**STABILITY:** Stable  
**HAZARDOUS POLYMERIZATION:** Will not occur  
**CONDITIONS TO AVOID:** Exposure to moisture  
**INCOMPATIBILITY:** Potassium and acid anhydrides  
**DECOMPOSITION PRODUCTS:** Boron oxide

## SECTION 11 TOXICOLOGICAL DATA

**ACUTE TOXICITY:** LD50 Oral – rat – 2,660 mg/kg. LD50 Dermal – Rabbit - > 2,000 mg/kg.  
**CARCINOGENIC EFFECTS:** No components of this product present at levels greater than or equal to 0.1% is identified a carcinogen.  
**MUTAGENIC EFFECTS:** Not available  
**TETRAOGENIC EFFECTS:** Not available  
**REPRODUCTIVE TOXICITY:** In animal testing, risk of impaired fertility was shown only after administration of very high doses of this substance.  
**RTECS:** ED4550000

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

## SECTION 12 ECOLOGICAL DATA

**TOXICITY TO FISH:** LC50-Ptychocheilus Lucius – 279 mg/l – 96 h  
LC0-Lepomis macrochirus (Bluegill)->1,201 mg/l – 96 h  
**TOXICITY TO DAPHNIA:** LC50-Daphnia magna (Water flea)-53.2 mg/l -21 d  
**AND OTHER AQUATIC INVERTEBRATES** EC50-Daphnia magna (Water flea)-133 mg/l – 48 h

## SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local, state, and federal regulations.

## SECTION 14 TRANSPORTATION DATA

Not a dangerous good

## SECTION 15 REGULATORY INFORMATION

**SARA 302/304:** Not listed  
**SARA 311/312:** Chronic Health Hazard  
**SARA (TITLE 313):** Not listed  
**PENNSYLVANIA RIGHT TO KNOW:** Boric Acid  
**NEW JERSEY RIGHT TO KNOW:** Boric Acid  
**CALIFORNIA PROP. 65:** Not Listed

## **SECTION 16 OTHER INFORMATION**

DISCLAIMER: The information herein is believed to be accurate and reliable as of the date compiled. However, ProChem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

DATE REVISED: 03/24

SDS DEPT.