

Safety Data Sheet

SDS# 0013

Boric Acid 99.9% Pure



Crystal Clear Lab™

Boric Acid 99.9% Pure - Granular Technical

SECTION 1: IDENTIFICATION

Product Identifier: Boric Acid 99.9% Pure - Granular Technical

Synonyms: Boracic acid; Orthoboric acid; Hydrogen borate

SDS Number: CCL_SDS0013

Manufacturer: Crystal Clear Lab

Address: 13854 C Plaza, Omaha, NE 68144

24-Hour Emergency Contact: 1-833-875-0643

Recommended Use: Technical use / household and farm use.

Restrictions on Use: Use only as directed.

SECTION 2: HAZARD IDENTIFICATION

GHS Classification: Reproductive Toxicity - Category 2

Pictograms:



Signal Word: Warning

Hazard Statements: May be harmful if swallowed. May cause harm to the unborn child. May impair fertility. Irritating to eyes and skin. May cause central nervous system effects.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration
Boric Acid	10043-35-3	≥ 99%

SECTION 4: FIRST-AID MEASURES

Route	Common Symptoms	First Aid
Inhalation	Trouble breathing	Remove source of contamination or move victim to fresh air. If the affected person is not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion	Products containing boric acid are not intended for ingestion. Boric acid has relatively low acute toxicity. Small amounts swallowed accidentally are not likely to cause effects; larger amounts may cause gastrointestinal symptoms.	Do not induce vomiting. If material is swallowed, get medical attention or advice.
Skin	Boric acid does not cause irritation to intact skin.	If irritation occurs, wash skin with soap and plenty of water. If irritation persists, get medical attention.
Eyes	Irritation	Immediately flush eyes with water for at least 15 minutes while holding eyelids open. If symptoms persist, get medical attention.

SECTION 5: FIRE-FIGHTING MEASURES

Flash Point: Not applicable.

Auto-Ignition: Non-flammable.

Extinguishing Media: Use methods appropriate for the surrounding fire. Consider water spray or fog, carbon dioxide, dry chemical powder, or alcohol-resistant foam.

Products of Combustion: Upon combustion this product may emit carbon dioxide, carbon monoxide, and/or borane/boron oxides.

Fire-Fighting Equipment and Procedures: Wear protective clothing and equipment suitable for the surrounding fire, including helmet, face mask, and self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Read entire label before using and follow all label directions.

Environmental Precautions: Prevent discharge to open waters.

Method of Containment: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Method for Clean-Up: Ventilate area of spill or leak. Sweep or scrape up and containerize in an approved chemical-waste container. Wash spill area with water.

SECTION 7: HANDLING AND STORAGE

Handling: Do not take internally. Do not consume food, drink, or smoke while handling this product.

Storage: Keep container tightly closed in a dry and well-ventilated place. Moisture sensitive.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Normal room ventilation is usually adequate under normal use. Handle in accordance with good industrial hygiene and safety practice.

Personal Protective Equipment (PPE)

Eye/Face Protection: Safety glasses with side shields.

Skin Protection: Handle with gloves.

Respiratory Protection: None needed under normal use.

General Hygiene Considerations: Wash hands after use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Value	Property	Value
Appearance	White granular/powdered solid, slightly unctuous to the touch	Upper/Lower Flammability	Not determined
Odor	Odorless	Vapor Pressure	Not determined
Odor Threshold	Not determined	Vapor Density	Not determined
pH	5.0 at 1.8 g/L	Relative Density	1.43
Melting Point	171°C	Solubility	Soluble in hot water
Boiling Point / Range	300°C	Partition Coefficient: n-octanol/water	Not determined
Flash Point	Not determined	Auto-Ignition Temperature	Not determined
Evaporation Rate	Not determined	Decomposition Temperature	Not determined
Flammability	Not flammable	Viscosity	Not determined

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Not reactive.

Chemical Stability: Stable under normal ambient temperatures (70°F).

Possibility of Hazardous Reactions: Not determined.

Conditions to Avoid: Exposure to moisture and extreme heat.

Incompatible Materials: Potassium, acid anhydrides.

Hazardous Decomposition Products: Not determined.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity: LD50 oral - rat - 2,660 mg/kg.
Skin Irritation: Not determined.
Eye Contact Damage: Not determined.
Respiratory Damage: Not determined.
Ingestion Overdose: Not determined.
Delayed, Immediate, or Chronic Effects from Short- and Long-Term Exposure: Not determined.
LD50: Not determined.
Symptoms Associated with Exposure: None expected; may cause skin irritation to sensitive people.
Carcinogenicity: OSHA - Not listed; NTP - Not listed; IARC - Not listed.

SECTION 12: ECOLOGICAL INFORMATION

Acute or Chronic Aquatic Toxicity: LC50 - Ptychocheilus lucius - 279 mg/L - 96 h.
Chemical Degradation: Not determined.
Biodegradation: Not determined.
Bioaccumulation Potential: Not determined.
Adsorption or Leaching Studies: Not determined.
Other Adverse Effects: Not determined.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose in accordance with federal, state, and local laws and regulations. Avoid release into the environment.

SECTION 14: TRANSPORT INFORMATION

Transport Item	Information
DOT Hazard Classification	Non-hazardous
UN Number	Not applicable
UN Proper Shipping Name	Not applicable
Transport Hazard Class(es)	Not applicable
Packing Group Number	Not applicable
Environmental Hazards	Not applicable
Special Precautions	Avoid exposure to moisture and extreme heat

SECTION 15: REGULATORY INFORMATION

Not determined.

SECTION 16: OTHER INFORMATION

Original Source Revision Date: 24-Nov-2020

Crystal Clear Lab Revision Date: 30-Aug-2026

Revision Note: Reissued under Crystal Clear Lab identity and formatting; supplier branding and contact information removed. Official OSHA GHS pictograms embedded without modification.

Disclaimer

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End of Safety Data Sheet