

## I Identification

Product Name: **Boric Acid**

Catalog Number: **B003**

Synonyms: **Hydrogen borate; Orthoboric acid**

Company: **Caisson Laboratories**

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Emergency Contact: **CHEMTREC 800.424.9300 (703.527.3887)**

Recommended Use: **For research and laboratory use only.**

Restrictions On Use: **This product is intended for research and laboratory use only. This product is not to be used as human or animal therapeutics, cosmetics, agricultural or pesticidal products, food additives, or as household chemicals.**

## II Hazard(s) Identification

Overview:

Flammability:

Reactivity: **No data available**

Toxicity:

NFPA Rating

Health: **0**

Flammability: **0**

Reactivity: **0**

Special:

Pictograms:



## III Composition / Information on Ingredients

General Information:

Component:

CAS#: **10043-35-3**

% by Weight:

**IV First-Aid Measures**

General Information: **Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.**

Route of Exposure

Oral: **If swallowed, wash out mouth with water. Never give anything by mouth to an unconscious person. Get medical attention.**

Inhalation: **Safely remove victim to fresh air. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen. Get medical attention.**

Dermal: **Wash area thoroughly with soap and water. Remove and wash contaminated clothing. Get medical attention if irritation persists.**

Eye: **In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Get medical attention.**

**V Fire-Fighting Measures**

General Information:

Flammable Properties

General:

Flash Point: **No data available**

Ignition Temperature: **No data available**

Suitable Extinguishing Media: **Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.**

Special Protective Equipment for fire fighters: **Wear self-contained breathing apparatus and protective clothing.**

Additional Information: **No data available**

**VI Accidental Release Measures**

General Information:

**VII Handling and Storage**

Handling: **Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.**

Storage: **Keep in a tightly closed container and store in a cool, dry, and well-ventilated area. Moisture sensitive.**

**VIII Exposure Controls / Personal Protection**

General Information:

Engineering Measures: **Handle in accordance to general industrial hygiene and safety practice.**

Personal Protective Equipment

General:

Eye Protection: **Wear chemical safety glasses or goggles. Have eye-washing facilities readily available where eye contact can occur.**

Hand Protection: **Wear protective gloves.**

Respiratory Protection: **Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).**

Skin and Body Protection: **Wear lab coat, gown, or coveralls to protect from exposure.**

Hygiene Measures:

**IX Physical and Chemical Properties**

General Information:

Appearance: **White to Off-White Granular Powder**

pH: **No data available**

Specific Gravity: **No data available**

Melting Point: **160 °C (320 °F)**

Boiling Point: **300 °C (572 °F)**

Flash Point: **No data available**

Flammability Range: **No data available**

Vapor Pressure: **No data available**

**X Stability and Reactivity**

General Information:

Storage Stability

Temperature: **Room Temperature**

Light Sensitive: **False**

Incompatibles: **Potassium, Acid anhydrides**

Hazardous Decomposition Products: **Boron oxides**

**XI Toxicological Information**

General Information:

Acute Toxicity: **LD<sub>50</sub>, IV - Mouse: 1,240 mg/kg**

**LD<sub>50</sub>, Oral - Rat: 2,660 mg/kg**

**LD<sub>50</sub>, SCU - Mouse: 1,740 mg/kg**

Chronic Toxicity:

Local Effects:

Target Organs: **Kidneys, liver, reproductive system**

Carcinogenicity: **No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.**

OSHA Permissible Exposure Limits: **No data available**

**XII Ecological Information**

General Information:

**XIII Disposal Considerations**

General Information:

Disposal of Product: **Dispose in accordance with all applicable federal, state, and local environmental regulations.**

Disposal of Packaging: **Dispose of as unused product.**

**XIV Transport Information**

Proper Shipping Name: **CHEMICALS, N.O.S (NON-REGULATED)**

UN#: **N/A**

Class: **N/A**

Packaging Group: **N/A**

Hazard Label: **N/A**

**XV Regulatory Information**

General Information:

TSCA:

SARA 313:

**XVI Other Information**

General Information: **All chemicals may pose unknown hazards and should be used with caution. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Caisson Laboratories, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.**