

Safety Data Sheet

Classified According to Canada Hazardous Product Regulations SOR/2015-17 (HPR 2022)

SECTION 1: Identification

1.1. Product Identifier

Trade Name or Designation Boric Acid, 5% (w/w)

Product Number 1069

Other Identifying Product Numbers 1069-5

1.2. Recommended Use and Restrictions on Use

General Laboratory Reagent

1.3. Details of the Supplier of the Safety Data Sheet

Company Ricca Chemical Company

Address 412 West Fork Drive

Arlington, TX 76012 USA

Telephone 888-467-4222

1.4. Emergency Telephone Number (24 hours)

CHEMTREC (USA) 800-424-9300

CHEMTREC (International) 1+ 703-527-3887

1.5. Distributor Address

Ricca Chemical Company

412 West Fork Drive

Arlington, TX 76012 USA

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SECTION 2: Hazard Identification

2.1. Classification of the Hazardous Product

| Hazard Class | Category | Hazard Statements | Precautionary Statements |
|-----------------------|-------------|-------------------|-------------------------------------|
| Reproductive Toxicity | Category 1B | H360 | P201,P202,P280,P308+P313,P405, P501 |

2.2. GHS Label Elements

Pictograms:



Signal Word: **Danger**

Hazard Statements:

NOTE: Hazard statements may be combined on labels to improve clarity and readability.

| Hazard Number | Hazard Statement |
|---------------|--|
| H360 | May damage fertility or the unborn child |

Precautionary Statements:

NOTE: Precautionary statements may be combined or consolidated on labels to improve clarity and readability.

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Prevention

| Precautionary Number | Precautionary Statement |
|----------------------|---|
| P201 | Obtain special instructions before use. |
| P202 | Do not handle until all safety precautions have been read and understood. |
| P280 | Wear protective gloves and eye protection. |

Response

| Precautionary Number | Precautionary Statement |
|----------------------|---|
| P308+P313 | If exposed or concerned: Get medical advice or attention. |

Storage

| Precautionary Number | Precautionary Statement |
|----------------------|-------------------------|
| P405 | Store locked up. |

Disposal

| Precautionary Number | Precautionary Statement |
|----------------------|---|
| P501 | Dispose of contents/container to suitable waste stream in accordance with local, state, federal, and international regulations. |

2.3. Hazards not Otherwise Classified

No other hazards identified.

2.4. Ingredients of Unknown Acute Toxicity

5.4 percent of this mixture consists of ingredient(s) of unknown acute dermal and inhalation toxicity.

SECTION 3: Composition / Information on Ingredients

3.1. Components of Mixture

| Chemical Name (IUPAC) | Common Name and Synonyms | CAS Number | Weight% |
|-----------------------|---|------------|---------|
| water | Water | 7732-18-5 | 94.61 |
| boric acid | Boric Acid; orthoboric acid; boracic acid | 10043-35-3 | 5.39 |

SECTION 4: First-Aid Measures

4.1. Description of Necessary First-Aid Measures

Eye Contact: May cause irritation, redness, pain, and tearing.

Ingestion: Dilute with water or milk. Call a physician if necessary.



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Inhalation: Not expected to require first aid. If necessary, remove to fresh air.

Skin Contact: May cause slight irritation.

4.2. Most Important Symptoms and Effects, Acute and Delayed

May damage fertility or the unborn child Does not present any significant health hazards. Wash areas of contact with water. EYE CONTACT: May cause irritation, redness, pain, and tearing. SKIN CONTACT: May cause slight irritation.

4.3. Immediate Medical Attention or Special Treatment Needed

Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops. Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen. Wash areas of contact with soap and water for at least 15 minutes. Call a physician if irritation develops. Dilute with water or milk. Call a physician if necessary.

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing Media

Use any means suitable for extinguishing surrounding fire.

5.2. Specific Hazards Arising from the Substance or Mixture in a Fire

Not considered to be a fire or explosion hazard.

5.3. Special Protective Equipment and Precautions for Firefighters

Use protective clothing and breathing equipment appropriate for the surrounding fire.

SECTION 6: Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Wear protective gloves and eye protection.

6.2. Cleanup and Containment Methods and Materials

Absorb with suitable material and dispose of in accordance with local regulations.

SECTION 7: Handling and Storage

7.1. Precautions for Safe Handling and Storage Conditions

Store locked up. As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage.

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SECTION 8: Exposure Controls / Personal Protection

8.1. Exposure Limits

U.S. OSHA - Permissible Exposure Limits (PEL) - Time Weighted Averages (TWA)

No limits found.

U.S. OSHA - Permissible Exposure Limits (PEL) - Ceiling Limits

No limits found.

U.S. OSHA - Permissible Exposure Limits (PEL) - Short Term Exposure Limits (STEL)

No limits found.

U.S. OSHA - Specifically Regulated Chemicals

No limits found.

ACGIH - Threshold Limit Values - Ceilings (TLV-C)

No limits found.

ACGIH - Threshold Limit Values - Short Term Exposure Limits (TLV-STEL)

| Chemical Name | CAS Number | Exposure Limit |
|---------------|------------|---|
| Boric Acid | 10043-35-3 | 6 mg/m ³ STEL (inhalable particulate matter, listed under Borate compounds, inorganic) |

ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)

| Chemical Name | CAS Number | Exposure Limit |
|---------------|------------|--|
| Boric Acid | 10043-35-3 | 2 mg/m ³ TWA (inhalable particulate matter, listed under Borate compounds, inorganic) |

8.2. Engineering Controls

No specific controls are needed. Normal room ventilation is adequate.

8.3. Individual Protective Measures and Personal Protective Equipment

Respiratory Protection: Normal room ventilation is adequate.

Skin Protection: Chemical resistant gloves.

Eye Protection: Safety glasses or goggles.



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SECTION 9: Physical and Chemical Properties

9.1. Physical and Chemical Properties

| | |
|---|---------------------|
| Physical State: | liquid |
| Color: | Colorless |
| Odor: | Data not available. |
| Odor Threshold: | Data not available. |
| Melting/Freezing Point: | Approximately 0°C |
| Boiling Point/Range: | Approximately 100°C |
| Flammability: | Data not available. |
| Flammability/Explosive Limits: | Data not available. |
| Flash Point: | Not flammable |
| Auto-Ignition Temperature: | Data not available. |
| Decomposition Temperature: | Data not available. |
| pH: | 4.5 - 5 |
| Kinematic Viscosity: | Data not available. |
| Solubility: | miscible |
| Vapor Pressure: | Data not available. |
| Evaporation Rate: | Data not available. |
| Relative Density: | 1.02 |
| Relative Vapor Density: | Data not available. |
| Particle Characteristics: | Data not available. |
| Partition Coefficient n-octanol/water, log | Data not available. |

SECTION 10: Stability and Reactivity

10.1. Reactivity and Chemical Stability

Stable under normal conditions of use and storage.

10.2. Possibility of Hazardous Reactions

Data not available.

10.3. Conditions to Avoid and Incompatible Materials

Alkalis, Hydroxides

10.4. Hazardous Decomposition Products

Will not occur.

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SECTION 11: Toxicological Information

11.1. Information on Toxicological Effects

Acute Toxicity - Oral Exposure:

Not acutely toxic.

| Chemical Name | CAS Number | Toxicity |
|---------------|------------|--|
| Boric Acid | 10043-35-3 | Oral LD50 Rat 2660 mg/kg (Source: JAPAN_GHS) |

Acute Toxicity - Dermal Exposure:

No information found.

Acute Toxicity - Inhalation Exposure:

No information found.

11.2 Carcinogenicity:

International Agency for Research on Cancer (IARC)

| Chemical Name | CAS Number | Classification |
|---------------|------------|----------------|
| | | No data found. |

National Toxicology Program (NTP)

| Chemical Name | CAS Number | Classification |
|---------------|------------|---|
| Boric Acid | 10043-35-3 | Male Rat - Not Tested; Female Rat - Not Tested; Male Mice - No Evidence; Female Mice - No Evidence (TR-324) |

U.S. OSHA specifically regulated carcinogens

| Chemical Name | CAS Number | Classification |
|---------------|------------|----------------|
| | | No data found. |

11.3 Additional Toxicology Information:

May damage fertility or the unborn child.

SECTION 12: Ecological Information

12.1. Ecotoxicity

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| Chemical Name | CAS Number | Species | Exposure | Toxicity |
|---------------|------------|------------|----------|---|
| Boric Acid | 10043-35-3 | Avian | Dietary | LC50 5 Days Anas platyrhynchos >5620 ppm [Diet] (IUCLID); LC50 5 Days Colinus virginianus >5620 ppm [Diet] (IUCLID) |
| Boric Acid | 10043-35-3 | Water Flea | Acute | EC50 48 h Daphnia magna 115 - 153 mg/L (EPA) |

12.2. Persistence and Degradability

Data not available.

12.3. Bioaccumulative Potential

Data not available.

12.4. Mobility in soil

Data not available.

12.5. Other Adverse Ecological Effects

Data not available.

SECTION 13: Disposal Considerations

13.1. Waste Treatment Methods

Data not available.

SECTION 14: Transportation Information

14.1 Transportation by Land - Department of Transportation (DOT, United States of America)

Not regulated according to DOT regulations.



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14.2 Transportation by Air - International Air Transport Association (IATA)

Not regulated according to IATA Dangerous Goods Regulations.

14.3 Transportation of Dangerous Goods (TDG, Canada)

Not regulated according to TDG regulations.

SECTION 15: Regulatory Information

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15.01. Occupational Safety and Health Administration (OSHA) Hazards

| Chemical Name | CAS Number | Regulatory Information |
|----------------|------------|------------------------|
| No data found. | | |

15.02. Superfund Amendments and Reauthorization Act (SARA) 302 Extremely Hazardous Substances

| Chemical Name | CAS Number | RQ |
|----------------|------------|----|
| No data found. | | |

15.03. Superfund Amendments and Reauthorization Act (SARA) 311/312 Hazardous Chemicals

| Chemical Name | CAS Number | Regulatory Information |
|----------------|------------|------------------------|
| No data found. | | |

15.04. Superfund Amendments and Reauthorization Act (SARA) 313 Toxics Release Inventory (TRI)

| Chemical Name | CAS Number | List |
|----------------|------------|------|
| No data found. | | |

15.05. Massachusetts Right-to-Know Substance List

| Chemical Name | CAS Number | Regulatory Information |
|----------------|------------|------------------------|
| No data found. | | |

15.06. Pennsylvania Right-to-Know Hazardous Substances

| Chemical Name | CAS Number | Regulatory Information |
|----------------|------------|------------------------|
| No data found. | | |

15.07. New Jersey Worker and Community Right-to-Know Components

| Chemical Name | CAS Number | Regulatory Information |
|---------------|------------|---|
| Boric Acid | 10043-35-3 | "sn 0241" As Borate compounds, inorganic [RR-33876-1] |

15.08. California Proposition 65

| Chemical Name | CAS Number | Regulatory Information |
|----------------|------------|------------------------|
| No data found. | | |

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15.09. Canada Domestic Substances List / Non-Domestic Substances List (DSL/NDSL)

| Chemical Name | CAS Number | List | Status |
|---------------|------------|------|---------|
| Boric Acid | 10043-35-3 | DSL | Present |
| Water | 7732-18-5 | DSL | Present |

15.10. United States of America Toxic Substances Control Act (TSCA) List

| Chemical Name | CAS Number | Status |
|---------------|------------|-----------------------|
| Boric Acid | 10043-35-3 | Present (ACTIVE) |
| Water | 7732-18-5 | Present [XU] (ACTIVE) |

15.11. European Inventory of Existing Commercial Chemical Substances (EINECS), European List of Notified Chemical Substances (ELINCS), and No Longer Polymers (NLP)

| Chemical Name | CAS Number | List | Number |
|---------------|------------|--------|-----------|
| Boric Acid | 10043-35-3 | EINECS | 233-139-2 |
| Water | 7732-18-5 | EINECS | 231-791-2 |

15.12. China - Inventory of Existing chemical Substances (IECSC)

| Chemical Name | CAS Number | Status |
|---------------|------------|-----------------|
| Boric Acid | 10043-35-3 | Present [25550] |
| Water | 7732-18-5 | Present [32224] |

15.13. Korea - Existing Chemicals Inventory (KECI/KECL)

| Chemical Name | CAS Number | List | Status |
|---------------|------------|---------|--------------------|
| Boric Acid | 10043-35-3 | Annex 1 | Present [KE-03499] |
| Water | 7732-18-5 | Annex 1 | Present [KE-35400] |

15.14. Japan - Existing and New Chemical Substances Inventory (ENCS)

| Chemical Name | CAS Number | MITI No. |
|---------------|------------|--|
| Boric Acid | 10043-35-3 | (1)-63 |
| Water | 7732-18-5 | - (listed on Japanese Pharmacopoeia 8th Edition) |

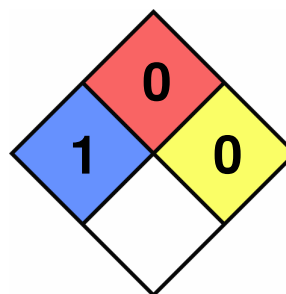
SECTION 16: Other Information

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16.1 National Fire Protection Associate (NFPA) Rating

Health: 1
Flammability: 0
Reactivity 0
Special Hazard:



16.2 Document Revision

Last Revision Date:
2026-05-05

DISCLAIMER

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and RICCA CHEMICAL COMPANY assumes no legal responsibility or liability whatsoever resulting from its use.