

SAFETY DATA SHEET



Colonial Chemical Solutions, Inc.

SECTION 1 · COMPANY AND PRODUCT IDENTIFICATION

PRODUCT

Product Name: BORIC ACID
Control Number: 00152
Product Description: Weak Acid

COMPANY IDENTIFICATION

Supplier: COLONIAL CHEMICAL SOLUTIONS, INC.
916 West Lathrop Avenue
Savannah, Georgia 31415

24 Hour Emergency Telephone: (800)-424-9300 CHEMTREC
General Information: (912) 236-1331

SECTION 2· HAZARDS IDENTIFICATION

GHS Classification:

[Health] [Environmental] [Physical]
Not considered a Hazardous Substance

GHS Label elements, including precautionary statements

Pictograms



Signal Word: Warning

Hazard statement(s)

H361 Suspected of damaging fertility or the unborn child.

Precautionary statement(s)

P202 Do not handle until all safety precautions have been read and understood.
P281 Use personal protective equipment as required.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P405 Store locked up.
P501 Dispose of contents/ container to an approved waste disposal plant.

SECTION 3 · COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS Number	%WT
Boric Acid	10043-35-3	100

SECTION 4 · FIRST AID MEASURES

FIRST AID PROCEDURES:

Eyes: Flush with running water as a precaution. Seek medical attention if irritation develops and persists.

Skin: Wash skin with soap and water. If irritation develops and persists seek medical attention.

Inhalation: For excessive inhalation remove to fresh air. If breathing is difficult seek medical attention.

Ingestion: Drink 2 glasses of water to dilute. Seek medical attention immediately.

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SECTION 5 - FIRE FIGHTING MEASURES

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

Hazardous combustion products: Oxides of Borane and Boron

Fire Fighting Procedures: Cool fire-exposed containers with water spray to prevent container weakening and possible rupture. Use self-contained breathing apparatus with a full face piece operated in the positive pressure mode.

Unusual Fire and Explosion Hazards: None known or expected..

Fire and Explosion Hazards: Not considered a fire or an explosion hazard.

SECTION 6 - ACCIDENTAL RELEASE and DISPOSAL MEASURES

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill: Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

SECTION 7 - STORAGE AND HANDLING

Handling: Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

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

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering Controls: Use explosion-proof ventilation equipment. Provide adequate ventilation or other engineering controls to keep the airborne concentrations of dust, vapor or mists below the applicable workplace exposure limits indicated below. The level of protection and types of controls will vary depending upon potential exposure conditions.

Exposure Limits: Boric Acid Contains no substances with occupational exposure limit values.

Personal Protective Equipment (PPE):

Eyes: Eye Protection when pouring. Goggles or full-face shield are recommended.

Skin: Wear neoprene gloves, apron, and/or clothing. Viton gloves are recommended.

Clothing: Selection of protective clothing depends on potential exposure conditions and may include gloves, boots, suits and other protective items.

Respirators: Where adequate ventilation is not available an approved respirator must be worn. Respirator selection should be in accordance with the requirements of OSHA Respiratory Protection Standard, 29 CFR 1920.134. In confined areas, use a self-contained breathing apparatus.

Other Equipment: Eye wash station and shower in close proximity to use are advised.

SECTION 9- PHYSICAL AND CHEMICAL PROPERTIES

Flash Point: Not Flammable

Autoignition Temperature: No available data

Boiling Point: Decomposes above 572 °F

Melting Point/Freezing Point: 336 °F

pH: 5.1 (1% Sol'n)

Solubility in Water: Complete

Odor/Appearance: White powdered solid with no appreciable odor.

Flammability Limits: No available data

Specific Gravity: 1.44

Volatile %: No available data

Evaporation Rate (BuAc=1): No available data

Vapor Density (Air-1): No available data

Vapor Pressure: 2.6 mmHg



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SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable under normal use conditions.

Conditions to Avoid: Moisture. High temperatures, dust generation, incompatible materials.

Incompatibility: Incompatible with Potassium, Acetic Anhydride. Reacts with basic materials to form borate salts.

Hazardous Polymerization: Will not occur normal use conditions.

SECTION 11 - TOXICOLOGICAL INFORMATION

Signs and Symptoms of Overexposure:

Skin: May cause skin irritation.

Eyes: Causes abrasive eye irritation accompanied by redness and tearing.

Inhalation: Causes mild respiratory tract irritation.

Ingestion: Causes mild irritation of the mouth, throat, and esophagus.

Acute oral toxicity:

Boric Acid LD50 rat: 2,660 mg/kg

Acute inhalation toxicity:

Boric Acid: LC50 rat: No available data

Acute dermal toxicity:

Boric Acid: LD50 Rabbit: No available data

SECTION 12 - ECOLOGICAL INFORMATION

Aquatic Toxicity: Toxicity to fish LC50 - *Ptychocheilus lucius* - 279 mg/l - 96 h

Bio-accumulative potential: No Bioaccumulation data available.

Mobility: Product not likely to be mobile in soil.

SECTION 13 - DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

SECTION 14 - TRANSPORTATION

U.S. DEPARTMENT OF TRANSPORTATION (Road or Rail):

Proper Shipping Name: Not a DOT Regulated Material

Hazard Class:

UN/NA:

Packaging Group:

SECTION 15 - REGULATORY INFORMATION

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US FEDERAL REGULATIONS

Comprehensive Environmental Response and Liability Act (CERCLA)

This material is not subject to any special reporting under the requirements of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA).

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. The reportable quantity (RQ) for this material has not been established.

Toxic Substance Control Act (TSCA): All components of this product are listed on the TSCA inventory list.

SARA Section 311/312 (40 CFR 370) Hazard Categories:

Chronic Health Hazard

SARA Section 313 (40 CFR 372) Hazard Categories:

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Water Act: None of the chemicals in this product are listed as Hazardous Substances under the CWA.

Clean Air Act: None of the chemicals in this product are listed as Hazardous Substances under the CAA.

California Prop 65: This product contains no chemicals known by the State of California to cause cancer, birth defects or other reproductive harm.

SECTION 16 - OTHER INFORMATION

MSDS Creation Date: November 2014

National Fire Protection Association (NFPA) Ratings: This information is intended solely for the use of individuals trained in the NFPA system.

Health: 1

Flammability: 0

Reactivity: 0

The information above is believed to be accurate and represents the best information currently available to us. However, Colonial Chemical Solutions makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Colonial be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Colonial has been advised of the possibility of such damages. The vendor assumes no responsibility for injury or damages resulting from the inappropriate alteration or manipulation of this MSDS and its contents from that originally submitted by Colonial.