



Material Safety Data Sheet

SECTION 1: Chemical Product and Company Identification

Manufacturer: Cumberland Swan
One Swan Drive
Smyrna, TN 37167

Date: November 1999

Product: Boric Acid

Telephone: (615) 459-8900

24hr Emergency: (615) 459-8900 ext. 5270

SECTION 2: Composition / Information on Ingredients

Name: Boric Acid

CAS#:10043-35-3

100%

SECTION 3: Hazards Identification

Prolonged exposure to elevated concentrations of dust may result in irritation to the eyes, nose, throat.

Potential Routes of Exposure: Ingestion, inhalation, dermal contact, eye contact

Target Organs: None; however, overexposure may result in reproductive disorders.

Symptoms of Overexposure:

Inhalation: May cause transitory sneezing and coughing.

Ingestion: Drowsiness, vomiting if ingesting over 15 g, and diarrhea.

Dermal Contact: None listed.

Acute Effects: Irritation, erthema, macular rash, CNS effects after 24

hr.

Chronic Effects: Kidney, liver diseases and nerve disorders may be aggravated by exposure to boric acid.

HMIS: H=2, F=0, R=0 See Section 8 for PPE information

SECTION 4: First Aid Measures

Eye: Flush eyes with copious amount of water for at least 15 minutes.

Skin: Flush with water. If irritation persists, seek medical attention.

Ingestion: Boric Acid is not considered an acute poison. Large amounts of borates are readily dissipated through the urine (70% in first 24hr). Vomiting may be induced by giving two glasses of water and sticking a finger down throat. Never give anything by mouth to an unconscious person. If unsure, contact the poison control center.

Inhalation: Remove victim to fresh air and provide oxygen if breathing is difficult. Seek medical attention if breathing continues to be difficult.

SECTION 5: Fire Fighting Measures

Extinguishing Media: None. Boric Acid is not flammable and does not support combustion. Use appropriate fire fighting measures for surrounding fire.

Unusual Fire or Explosion Hazards: None. Product is an inherent fire retardant.

Recommendations: Clear area of unprotected personnel. Wear complete turnout gear. Cool containers exposed to fire with water.

SECTION 6: Accidental Release Measures

Large Spills: Shovel or sweep up an place in container for later disposal. Follow applicable state or federal regulations concerning disposal.

Small Spills: Wash with water.

SECTION 7: Handling and Storage

Storage Requirements: Store in tightly closed containers in a cool and dry area.

Handling precautions: Use appropriate ventilation/respirators when handling material above the OSHA/NIOSH exposure limits.

SECTION 8: Exposure Controls / Personal Protection

OSHA PEL = 15 MG/M³ OSHA STEL=N/A IDLH=N/A

Recommended Engineering Controls: Use ventilation equipment as necessary to maintain airborne concentrations below the PEL.

Recommended Admin Controls: Train employees on the hazards of dust

PPE: Goggles, gloves, respirator

Recommended Hygiene Practices: Clean PPE and work clothing contaminated with boric acid prior to reuse. After working with this product, be sure to wash before eating, smoking, drinking, or applying cosmetics.

SECTION 9: Physical and Chemical Properties

Appearance:	White crystalline solid	Freezing Point:	N/A	Autoignition:	N/A
Odor:	No odor	Water Solubility:	4.72% @ 20 ⁰ C	LEL:	N/A
Odor Threshold:	N/A	Molecular Weight:	N/A	UEL:	N/A
Vapor Pressure:	N/A	Specific Gravity:	1.43	Vapor Density:	N/A
Boiling Point:	572 ⁰ F	Flash Point:	N/A		

SECTION 10: Stability and Reactivity

Stability: Stable

Polymerization: Will not occur

Conditions to avoid: Acetic anhydride elemental potassium

Hazardous Products of Decomposition: None identified

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SECTION 11: Toxicological Information

LD50: 3.16 G/KG (oral) (Rats) LC50: 16 MG/L (Rabbits) 2 G/KG (Dermal) (Rabbits)

Carcinogenicity: Not identified as a carcinogen by OSHA, IARC, or NTP

Mutagenicity: Not Indicated

Reproductive Effects: Studies in animals show daily ingestion of large amounts of boric acid causes effects on the male reproductive system (testicular atrophy, reduced sperm production, and sterility) and fetal developmental effects (organ and skeletal abnormalities)

SECTION 12: Ecological Information

Ecotoxicity: N/A Environmental Fate: N/A Soil Absorption/Mobility: Slightly Mobile

Environmental Degradation: Not identified.

SECTION 13: Disposal Considerations

Disposal: Contact your supplier or a licensed contractor for detailed recommendations.

Disposal Regulatory Requirements: Follow applicable Federal, state and local regulations

SECTION 14: Transport Information

Shipping Name: Consumer Commodity ORM-D

SECTION 15: Regulatory Information

RCRA Hazardous Waste Number/Classification: N/A

CERCLA Substance: N/A

CERCLA Reportable Quantity: 10,000 lbs (Default)

SARA 311/312 Codes: N/A

SARA Toxic Chemical: N/A

SECTION 16: Other Information

Prepared by: Cumberland Swan

Sources of Information: 29CFR1910.1000; NIOSH Pocket Guide to Chemical Hazards (1993); Occupational Health Guidelines for Chemical Hazards; NFPA Guide to Hazardous Materials - 10th Edition, 49 Code of Federal Regulations.

Disclaimer: While reasonable care has been taken to ensure the accuracy and completeness of the information regarding the material described herein, it is the purchaser's responsibility to ensure the suitability of such information as it applies to the purchaser's intended use of the material.

