MATERIAL SAFETY DATA SHEET

ALDON CORPORATION
221 Rochester Street
Avon, New York 14414-9409
(585) 226-6177

MSDS No.: BB0155
Effective Date: January 1, 2007

SECTION I NAME

Product: Boric Acid
Chemical Synonyms: Boracic Acid
Formula: H₃BO₃
Unit Size: 100 grams to 2.5 Kg.
C.A.S. No.: 10043-35-3

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s) % TLV Units
Boric acid 100% See Section V.

WARNING! HARMFUL IF SWALLOWED.

SECTION III PHYSICAL DATA

Melting Point (°F) 171°C (365°F) decomposes
Boiling Point (°F) N/A
Vapor Pressure (mm Hg) Negligible as solid.
Vapor Density (Air=1) Unknown.
Solubility in Water 5.6 grams dissolves in 100 mL of water at room temperature.
Appearance & Odor White crystalline solid; no odor.

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used) Non-flammable solid.
Flammable Limits in Air % by Volume N/A
Lower Upper
Extinguisher Media None - product inherent fire retardant.

SPECIAL FIREFIGHTING PROCEDURES

Use any media suitable for extinguishing supporting fire. In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may produce hazardous decomposition products of Boron.

SECTION V HEALTH HAZARD DATA

Threshold Limited Value
RTESCs No. ED4550000 Toxicity data: orl-wmn LDLc: 200 mg/kg, orl-inf LDLc: 934 mg/kg. 10 mg/m³ for Boron oxide. (ACGIH 1992-93).

Effects of Overexposure
INGESTION OR ABSORPTION: May cause nausea, vomiting, diarrhea, abdominal cramps. Death has occurred from less than 5 grams in infants and from 5 to 20 grams in adults. CAUTION: Several cases of fatal poisoning have occurred following its absorption from granulating wounds and abraded skin areas. May cause CNS effects, liver/kidney disorders. Target organs: Kidneys, circulatory and central nervous systems.

Emergency and First Aid Procedures
INGESTION: Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person. EYES: Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. SKIN: Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

SECTION VI REACTIVITY DATA

Stability Unstable Conditions to Avoid Excessive temperature and heat. Loses water when heated above 100°C.
Incompatibility (Materials to Avoid) Acetic anhydride, potassium and heat sources.
Hazardous Decomposition Products None specifically known; dust containing Boron compounds.
Hazardous Polymerization Products Conditions to Avoid Not applicable.

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled
Sweep up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Waste Disposal Method
Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only. Dissolve in water and flush to sewer with copious amounts of water.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type) None should be needed in normal laboratory handling. If dusty conditions prevail, work in a ventilation hood or wear a NIOSH/MSHA-approved dust mask or respirator.
Ventilation Local Exhaust Recommended. Special No.
Mechanical (General) Recommended. Other No.
Protective Gloves Rubber. Eye Protection Chemical safety glasses.
Other Protective Equipment Safety glasses, lab coat, vented hood, proper gloves, and eye wash station.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be taken in Handling & Storing
Store in a dry place. Wash thoroughly after handling.
Other Precautions Avoid contact with eyes and abraded skin. Avoid breathing dust. Use with adequate ventilation. Remove and wash contaminated clothing.

D.O.T. Non Regulated
Approved by U.S. Department of Labor "essentially similar" to form OSHA-20

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