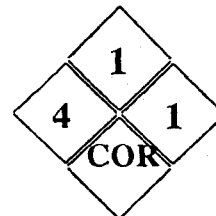


Material Safety Data Sheet

Common Name **Boric Acid**

Synonyms



Section I

Prepared By: **Eagle Associates, Inc.
6360 Jackson Road - Suite G
Ann Arbor, MI 48103**

Telephone Number for Information **313-662-8002**

Index Number **14880**

Manufacturer **Mallinckrodt**

Date Prepared **January 4, 1995**

Product Number

Edition **951**

Section II - Hazardous Ingredients / Identity Information

Hazardous Components (Specific Chemical Identity)

OSHA PEL

ACGIH TLV

Other Limits Recommended

% (optional)

Boric Acid

CAS # 10043-35-3

Section III - Physical / Chemical Characteristics

Boiling Point	decomposes	Specific Gravity (H ₂ O = 1)	1.43
Vapor Pressure (mm Hg)	26	Melting Point	365°F
Vapor Density (Air = 1)	Unk	Evaporation Rate (Butyl Acetate = 1)	Unk

Solubility in Water **soluble**

Appearance and Odor **white powder or granules; no apparent odor**

Section IV - Fire and Explosion Hazard Data

NFPA Rating: 1

Flash Point (Method Used) **na**

Flammable Limits

na

LEL

UEL

Extinguishing Media **Use extinguishing media appropriate for surrounding fire conditions.**

Special Fire Fighting Procedures

Wear a self-contained breathing apparatus and full protective clothing.

Unusual Fire and Explosion Hazards

A mixture of Potassium and Boric Acid may explode on impact.

Replaced

3/23/04

Index Number 14880

Section V - Reactivity Data

NFPA Rating: 1

Stability	Unstable	
	Stable	X

Conditions to Avoid
If moisture is present, boric acid can be corrosive to iron.

Incompatibility (Materials to Avoid) potassium, acetic anhydride, alkalis, carbonates, hydroxides

Hazardous Decomposition or By-Products boron oxide

Hazardous Polymerization	May Occur	
	Will Not Occur	X

Conditions to Avoid
na

Section VI - Health Hazard Data

NFPA Rating: 4

Route(s) of Entry: Inhalation? yes Skin? yes Ingestion? yes

Target Organs: eyes; skin; respiratory tract; gastrointestinal system; kidneys; liver

Health Hazards (Acute and Chronic)

Irritation of mucous membranes possibly resulting in coma, death, or burns of the skin. Mutagenic references cited.

Carcinogenicity NTP? Unk IARC Monographs? Unk OSHA Regulated? Unk

Signs and Symptoms Of Exposure

local irritation, skin rash, weight loss, nausea, vomiting, diarrhea, drowsiness, convulsions, anemia

Medical Conditions Generally Aggravated By Exposure

skin disorders, eye problems, impaired liver, kidney or respiratory function

Emergency and First Aid Procedures

- Eyes: irrigate immediately
- Skin: wash with soap and water
- Inh: remove to fresh air; support breathing as needed
- Ing: give plenty of water or milk; seek immediate medical attention

Section VII - Precautions for Safe Handling and Use

Steps To Be Taken In Case Material Is Released Or Spilled

Ventilate area. Clean-up personnel require personal protective equipment. Pick-up and place in a suitable container for disposal using a method that does not generate dust.

Waste Disposal Method

Dispose according to federal, state, and local regulations.

Precautions To Be Taken In Handling and Storing

Contact lenses should not be worn when working with this material.

Other Precautions

Wash hands thoroughly after handling.

Section VIII - Control Measures

Respiratory Protection (Specify Type)

Use a dust/mist respirator.

Ventilation	Local	yes - appropriate to capture contaminants at source
	Mechanical (General)	YES

Protective Gloves chemical-resistant gloves Eye Protection chemical safety goggles

Other Protective Clothing or Equipment eyewash station; quick-drench shower; protective clothing as needed to avoid contact

Work Hygienic Remove and launder contaminated clothing before reuse. Practice proper personal/work hygiene.

The information presented herein is based on experimental data and is considered scientifically correct. The information represents our current data and best opinion as to the proper use in handling of this product under normal conditions. However, we make no representation, warranty or guarantee as to the accuracy, reliability or completeness of this information for application to the purchaser's intended purpose or for consequences of its use.