Material Safety Data Sheet

PRODUCT NAME Boric Acid Powder

Section I – Product Information

Supplier's Name Gesswein	Emergency Telephone Number 800-255-3924
Address *(Number, Street, City, State, and Zip Code)* 255 Hancock Avenue	Telephone Number for Information 203-366-5400
Bridgeport, CT 06605 USA	Date Prepared Sept 1, 2002
	Signature of Preparer *(Optional)*
Brand Name Boric Acid Powder	Chemical Name Boric acid
Common Name Boric acid	Formula H_3B0_3
DOT Proper Shipping Name Not applicable	DOT Hazard Class Not applicable
DOT I.D. Number Not applicable	Reportable Quantity (RQ) Not applicable
CAS Number 10043-35-3	

Section II – Physical and Chemical Properties

State Granular/Powder solid	Melting Point C 171
Boiling Point C Not applicable	Color White
Odor None	Bulk Density, lb/cu.ft 30 to 70
Weight Per Gallon Not applicable	Specify Gravity @ 20C 1.4
Water Solubility, % by wt. @ 20C 4.6	Flash Point and Method Not applicable
pH Not applicable	

Section III – Hazardous Ingredients

Chemical Name Boric acid
Common Name Boric acid
CAS Number 1004303503
Hazard Irritant to eyes, nose, throat and lungs. Toxic if swallowed.

Section IV – Physical Hazard Information

Explosive: No	Upper Explosive Limit: Not applicable	Lower Explosive Limit: Not applicable	
Flammable: No	Flammability Class: Not applicable	Combustible: No	
Pyrophoric: No	Organic Peroxide: No	Oxidizer: No	Compressed Gas: No
Reactivity: Stable under normal and expected conditions. Loses water when heated above 100C.			
Incompatibilities: Potassium, acetic anhydride and heat sources.			
Hazardous Decomposition: None			
Conditions To Avoid: Mixing with incompatible materials and heat.			

Section V – Health Information

Precautionary Information: CAUTION! May cause irritation. Harmful if swallowed or absorbed through damaged skin.
Symptoms of Exposure: Eye irritation, mucous membrane irritation, respiratory irritation, dry skin, weakness, abdominal pain, vomiting and diarrhea.
Restrictive Medical Conditions: Kidney, liver diseases and nerve disorders may be aggravated by exposure to this material.
Primary Route(s) of Entry: Ingestion (swallowing), eyes, damaged skin and inhalation (breathing).

Section VI – Toxicity Information

Skin-human 15mg/3days, mild irritation; Orl-woman LDLo 200mg/kg; orl-infant LDLo 934mg/kg; skin-infant LDLo 1200mg/kg; skin-child LDLo 4000mg/kg/4D; skin-man LDLo 2430mg/kg; skin-child LDLo 1500 mg/kg; subcutaneous-infant LDLo 1100mg/kg; Unk-man LDLo 147mg/kg; Orl-rat LD_{50}2660mg/kg; scu-rat LD_{50} 1400mg/kg. Ivn-rat LD_{50} 1300mg/kg, Orl-mouse LD_{50} 3450 mg/kg; scu-mouse LD_{50} 1740mg/kg; Ivn-mouse LD_{50} 1780mg/kg; Orl-Spraque. Dawley rats LD_{50} 3450 mg/kg males, 4080 mg/kg females; Orl-Long, Evan rats LD_{50} 3160mg/kg males; Reproduction effects, including sterility noted in experimental rats and dogs at feed levels of 45g/kg, no effects at feed levels of 13 g/kg; mutagenic effects noted in bacteria exposed to 1700 ppm/24 hours.

Section VII – Exposure Limits

OSHA: Not established	ACGIH: Not established
Other: ACGH Nuisance dust TLV-TWA is 10mg/m^3 total dust or 5mg/m^3 respirable dust.	
Reported As A Potential Carcinogen or Carcinogen: N/A	

Section VIII – Precautions for Safe Handling and Use

Avoid contact with eyes.
Avoid breathing dust.
Use with adequate ventilation.
Keep container closed.
Wash thoroughly after handling.

Section IX – Spill and Leak Procedures

Soil Release: Shovel or sweep up into a container and reclaim for salvage value or dispose of in accordance with federal, state and local regulations. If permitted, wash to an industrial sewer.
Water Spill: Collect by suction or dredge and dispose of as under Soil Release above.
Air Spill: Allow dust to settle, collect and dispose of as above for Soil Release.
Occupational Spill: Shovel or sweep up and dispose of as above for Soil Release.
RCRA Waste Number: N/A

Section X – Engineering Controls and Personal Protective Equipment

Ventilation: Use local exhaust and general ventilation techniques. Personnel must use a personal respirator if dust concentration exceeds exposure limit.
Respirator: Use NIOSH/MSHA approved dust and mist respirator if dust concentration exceeds exposure limit and up to 50 mg/m^3.
Eye Protection: Safety glasses or vented safety goggles.
Gloves: Ordinary work gloves.
Clothing: Wear easily washable clothing. Change daily. Wash clothing reuse.

Section XI – Emergency Procedures

Fire: Boric acid is not flammable and does not support combustion. Use fire fighting media suitable for surrounding fire.
Spill or Leak: Shovel, or sweep up and place in container for later disposal.

Section XII – First Aid Procedures

Ingestion: If swallowed, induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give anything by mouth to an unconscious person. Call a physician.
Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician.
Skin Contact: Flush skin with water and then wash thoroughly with soap or mild detergent and water.
Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.
Note To Physician: Chemical of exposure is boric acid.

Note: The information and recommendations set forth are taken from sources believed to be accurate as of the date hereof; however, Gesswein makes no warranty with respect to the accuracy of the information or the suitability of the recommendations, and assumes no liability to any user thereof.

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