



Humco Holding Group, Inc.
7400 Alumax Dr
Texarkana TX 75501 USA
800-662-3435
cs@humco.com
www.humco.com

24-Hour Emergency Number (CHEMTREC)
USA- 800-424-9300
International – 703-527-3887

All non-emergency calls should be directed to
Customer Service at 800-662-3435

NAME: BORIC ACID

SDS NO. 0300

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Boric Acid

Synonyms: Ortho-Boric Acid, Boracic Acid, Borofax

Recommended Use: For Laboratory and Manufacturing use only.

Manufacturer by: Humco Holding Group, Inc.

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2. HAZARD IDENTIFICATION

Pictogram:	
Classification:	Acute toxicity, Oral (Category 5) Reproductive toxicity (Category 1B)
Signal Word:	Danger
Hazard Statements:	May be harmful if swallowed, may damage fertility or the unborn child.

3. COMPOSITION / INGREDIENTS

CHEMICAL NAME	CAS#
BORIC ACID	10043-35-3

The exact percentage has been withheld as a trade secret

4. FIRST-AID MEASURES

ROUTE	COMMON SYMPTOMS	FIRST AID
Inhalation	May cause respiratory irritation	Assure fresh air breathing. Allow person to rest. Get medical attention.
Ingestion	May cause nausea, vomiting, diarrhea, cyanosis.	Never give anything by mouth to an unconscious person. Rinse mouth. Do Not Induce Vomiting. Obtain emergency medical attention.
Skin	May cause slight skin irritation	Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
Eyes	May cause slight eye irritation	Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.

5. FIRE-FIGHTING MEASURES

Flash Point:	Not Flammable
Auto Ignition:	Not Flammable
Extinguishing Media:	Foam, Dry powder, Carbon Dioxide, Water Spray, Sand
Products of Combustion:	A mixture of potassium and boric acid may explode on impact.
Fire Fighting Equipment and Procedures:	Exercise caution when fighting any chemical fire. Avoid (reject) firefighting water to enter environment. Do not enter fire area without proper protective equipment, including respiratory protection.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Do not handle until all safety precautions have been read and understood.
Environmental Precautions:	Prevent entry to sewers and public waters.
Method of Containment:	Contain and recover the material when possible.
Method for Clean-Up:	On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

7. HANDLING AND STORAGE

Handling:	Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation to prevent formation of vapor.
Storage:	Keep only in original container in a cool, well ventilated place away from incompatible materials. Keep container closed when not in use.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering Controls:	Emergency eyewash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Personal Protective Equipment (PPE)	
Eye/Face Protection:	Chemical goggle or safety glasses.
Skin Protection:	Wear protective gloves.
Respiratory Protection	Wear appropriate mask.
General Hygiene Considerations:	Wash contaminated clothing before use. Do not eat drink or smoke when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White crystalline solid	Upper/Lower Flammability:	Not Determined
Odor:	Odorless	Vapor Pressure	2.7 mbar 20 ° C
Odor Threshold:	Not determined	Vapor Density:	Not Determined
pH:	3.8 – 4.8 in 3.3% solution	Relative Density:	1.435 g/cm ³
Melting point /Freezing Point:	169 ° C	Solubilities:	Water, ethanol, ether, pyridine, acetone
Boiling point/range:	300 ° C	Partition coefficient: n-octanol/water:	Not Determined
Flash point	Not Determined	Auto-ignition temperature	Not Determined
Evaporation rate	Not Determined	Decomposition Temperature:	100 ° C
Flammability:	Not Determined	Viscosity	Not Determined

10. STABILITY AND RACTIVITY

Reactivity:	If moisture is present, boric acid can be corrosive to iron.
Chemical Stability:	Stable under ordinary conditions of use and storage.
Possibility of Hazardous reactions:	A mixture of potassium and boric acid may explode on impact.
Conditions to Avoid:	Sources of ignition, direct sunlight, moisture.
Incompatible materials:	Potassium, Acetic Anhydride, alkalis, carbonates, and hydroxides.
Hazardous Decomposition Products:	Loses chemically combined water upon heating, forming Metaboric Acid, then Pyroboric acid and Boric Anhydride at higher temperatures.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:	Not Determined
Skin irritation:	May cause slight skin irritation.
Eye contact damage:	May cause slight irritation.
Respiratory damage:	May cause respiratory irritation.
Ingestion overdose:	Not Determined
Delayed, immediate, or chronic effects from short- and long-term exposure	May damage fertility or unborn child. Cracking of the skin.
LD50	Not Determined
Symptoms associated with exposure:	Warning! Harmful if swallowed or inhaled. Can affect central nervous system, liver and kidneys.
Carcinogenicity:	
OSHA:	Not Determined
NTP:	Not Determined
IARC:	Not Determined

12. ECOLOGICAL INFORMATION

Acute or chronic aquatic toxicity:	This material may be toxic to aquatic life.
Chemical degradation:	Not Determined
Biodegradation:	Not Determined
Bioaccumulation potential	Not Determined
Adsorption studies or leaching studies:	Not Determined
Other adverse effects	Not Determined

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with federal, state and local laws and regulations. Avoid release into environment.

14. TRANSPORT INFORMATION

DOT Hazard Classification:	Not Regulated
UN number:	Not Applicable
UN proper shipping name:	Not Applicable
Transport hazard class(es):	Not Determined
Packing group number:	Not Applicable
Environmental hazards:	Not Determined
Special precautions:	Not Determined

15. REGULATORY INFORMATION

Not determined

16. OTHER INFORMATION

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