



Material Safety Data Sheet

Section 1: Chemical Product and Company Identification

Product Identity:

BORIC ACID, 4% (w/v) Aqueous Solution with Bromocresol Green-Methyl Red Indicator

Supplier's Name:

S D FINE-CHEM LIMITED

Address:

315-317 T.V.IND. ESTATE, 248, WORLI ROAD, MUMBAI-400 030, INDIA.

Emergency Contact :

phone: 91-22 2495 98 98 / 99 FAX: 91-22 2493 7232 Email: technical@sdfine.com

Section 2. Composition/Information on Ingredients

Component	CAS Registry #	Concentration	ACGIH TLV	OSHA PEL
Boric Acid	10043-35-3	3 - 5% (w/v)	Not Available	Not Available
			Not Available	Not Available
Bromocresol Green, Sodium Salt	62625-32-5	< 0.01% (w/v)	Not Available	Not Available
			Not Available	Not Available
Water	7732-18-5	Balance	Not Available	Not Available
			Not Available	Not Available
Methyl Red, Sodium Salt	845-10-3	< 0.01% (w/v)	Not Available	Not Available
			Not Available	Not Available

Section 3: Hazard Identification

Emergency Overview: Does not present any significant health hazards. Wash areas of contact with water.

Target Organs: eyes, skin

Eye Contact: May cause slight irritation.

Inhalation: Not likely to be hazardous by inhalation.

Skin Contact: May cause slight irritation.

Ingestion: Large doses may cause stomach upset.

Chronic Effects/Carcinogenicity: None

IARC - No.

NTP - No.

OSHA - No.

Reproductive Information: Reproductive effects cited in 'Registry of Toxic Effects of Chemical Substances' for Boric Acid. Reproductive effects cited in 'Registry of Toxic Effects of Chemical Substances' for Boric Acid.

Teratology (Birth Defect) Information: Mutation data cited in 'Registry of Toxic Effects of Chemical Substances' for Boric Acid. Mutation data cited in 'Registry of Toxic Effects of Chemical Substances' for Methyl Red, Sodium Salt. Mutation data cited in 'Registry of Toxic Effects of Chemical Substances'

Section 4: First Aid Measures - In all cases, seek qualified evaluation.

Eye Contact: Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops.

Inhalation: Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen.

Skin Contact: Flush with plenty of water for at least 15 minutes. Call a physician if irritation develops.

Ingestion: Dilute with water or milk. Do not induce vomiting. Call a physician if necessary.

Section 5: Fire Fighting Measures

Flash Point: Not Available.

Method Used: Not Available.

LFL: Not Available.

UFL: Not Available.

Extinguishing Media: Use any means suitable for extinguishing surrounding fire.

Fire & Explosion Hazards: Not considered to be a fire or explosion hazard.

Fire Fighting Instructions: Use normal procedures/instructions.

Fire Fighting Equipment: Use protective clothing and breathing equipment appropriate for the surrounding fire.

Section 6: Accidental Release Measures

Dilute with water, then flush to sewer if local regulations allow. If not allowed, save for recovery or recycling in an approved waste disposal facility. Always dispose of in accordance with local, state and federal regulations.

Section 7. Handling and Storage

As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage.

Safety Storage Code: General

Section 8: Exposure Control/Personal Protection

Engineering Controls: No specific controls are needed. Normal room ventilation is adequate.

Respiratory Protection: Normal room ventilation is adequate.

Skin Protection: Chemical resistant gloves.

Eye Protection: Safety glasses or goggles.

Section 9: Physical and Chemical Properties

Appearance: Clear, reddish-orange colored liquid

Odor: Odorless

Solubility in Water: Infinite

Specific Gravity: Approximately 1

pH: Not Available.

Boiling Point(°C): Approximately 100

Melting Point(°C): Approximately 0

Vapor Pressure: Not Applicable.

Section 10: Stability and Reactivity

Chemical Stability: Stable under normal conditions of use and storage.

Incompatibility: Alkalies, Hydroxides

Hazardous Decomposition Products: None expected

Hazardous Polymerization: Will not occur.

Section 11. Toxicological Information

LD50, Oral, Rat: (Boric Acid) 2660 mg/kg; LdLo, Oral, Woman: 200 mg/kg (Boric Acid). No information found on Methyl Red Sodium Salt or Bromocresol Green Sodium Salt in RTECS.

Section 12. Ecological Information

Ecotoxicological Information: Harmful to boron-sensitive plants in higher quantities, although boron is an essential micronutrient for healthy growth of plants.

Chemical Fate Information: Boric Acid decomposes in the environment to natural borate . This product is leachable through normal soil.

Section 13. Disposal Considerations

Dilute with water, then flush to sewer if local regulations allow. If not allowed, save for recovery or recycling in an approved waste disposal facility. Always dispose of in accordance with local, state and federal regulations.

Section 14. Transport Information

This product is not regulated.

Section 15. Regulatory Information (Not meant to be all inclusive - selected regulation represented)

OSHA Status:The above items either do not contain any specifically hazardous material or the potentially hazardous material is present in such low concentration that the items do not present any immediate threat to health and safety. These items do not meet the OSHA Hazard Communication Standard (29 CFR 1910.1200) definition of a hazardous material.

TSCA Status:All components of this solution are listed on the TSCA Inventory or are mixtures (hydrates) of items listed on the TSCA Inventory.

Sara Title III:

Section 302 Extremely Hazardous Substances:Not Applicable.

Section 311/312 Hazardous Categories:No

Section 313 Toxic Chemicals:Not Applicable.

California: None Reported.

Pennsylvania: None Reported.

RCRA Status: Not Applicable.

CERCLA Reportable Quantity: None Reported.

WHMIS: D-2A: Poisonous and Infectious Material. Materials causing other toxic effects - Very Toxic Material.



Section 16. Other Information

NFPA Ratings:

Health: 1

Flammability: 0

Reactivity: 0

Special Notice Key:None

HMIS Ratings:

Health: 1

Flammability: 0

Reactivity: 0

Protective Equipment:B (Protective Eyewear, Gloves)

The above information is believed to be accurate and represent the best information currently available to us, but does not represent any warranty expressed or implied of the properties of the product. User should make their own investigation to determine the suitability of the information for their particular purpose.

Issue date:06/06/2018