

MATERIAL SAFETY DATA SHEET

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Mon-Fri 8:00 am - 4:30 pm

24 Hour Emergency
Telephone Number
CHEMTREC
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SECTION 1 PRODUCT IDENTIFICATION

PRODUCT NAME: pH 10.00 REFERENCE BUFFER (Blue Color)

CATALOG NUMBER: 10003, 10006, 10224

CHEMICAL FAMILY: pH BUFFER

SYNONYMS: NONE

Formula: Boric acid, Potassium hydroxide CAS #1310-58-4, FD & C blue, RO/DI water

SECTION 2 HAZARDOUS INGREDIENTS

Hazardous COMPONENTS	OSHA PEL	ACGIH TLV	Other Limits Recommended
Boric Acid CAS #10043-35-3	Not listed	Not listed	LD 50 Oral rat 2660 mg/kg

SECTION 3 PHYSICAL DATA

Boiling Point: Approx. 212°F, 100°C

Solubility In Water: Miscible

Vapor Pressure (mm Hg): Not found

Melting Point: Approx. 32°F (0°C)

Appearance and Odor: Blue liquid

Vapor Density (AIR=1): Not found

Specific Gravity: Approx. 1

Percentage Volatile By Volume: Similar to water.

Evaporation Rate: Similar to water.

SECTION 4 FIRE AND EXPLOSION HAZARD DATA

Flash Point: Not flammable

Flammable Limits:

LEL: None

UEL: None

Fire Extinguishing Media: Use media appropriate to cause of fire.

Fire Fighting Procedures: Wear full protective clothing and self-contained breathing apparatus with full face plate operated in positive pressure mode.

Unusual Fire And Explosion Hazards: May give off boron oxide when heated to decomposition.

SECTION 5 HEALTH EFFECTS AND FIRST AID

Route(s) Of Entry: INHALATION? No SKIN? Not significantly absorbed unless skin is damaged. INGESTION? Yes

Health Hazards (Acute and Chronic): Chronic - kidney and liver more susceptible. Weight loss, vomiting.

Carcinogenicity: NTP? IARC Monographs? OSHA Regulated? Mutation and reproductive effects cited for Boric acid.

Signs and Symptoms Of Exposure? Irritation to eyes, skin, or mucous membranes, vomiting, diarrhea, drowsiness.

Medical Conditions Generally Aggravated By Exposure: Pre-existing skin conditions, eye problems, or impaired liver or kidney function.

EMERGENCY FIRST AID PROCEDURES:

Skin: Wash off skin with soap and water.

Eyes: Flush eyes with water for 15 minutes.

Ingestion: Do not induce vomiting. Give water or milk and immediately call a physician.

SECTION 6 REACTIVITY DATA

Stability: Stable

Conditions To Avoid: None found

Incompatibilities: Acetic anhydride, organic halogen compounds, nitromethane

Hazardous Decomposition Products: None

Hazardous Polymerization: Will not occur under normal conditions of use and storage.

SECTION 7 SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled: Soak up with absorbent material.

Waste Disposal Method: Dispose of in accordance with local, state, and federal regulations or contact an approved and licensed disposal agency.

Precautions To Be Taken In Handling & Storage: Use normal safe chemical handling procedures. Keep tightly closed when not in use.

Other Precautions: None

SECTION 8 CONTROL MEASURES

Respiratory Protection: None required in normal use.

Ventilation Systems: General mechanical ventilation satisfactory in normal use.

Skin Protection: Rubber gloves, lab coat.

Eye Protection: Safety splash glasses

Other Protective Equipment: Maintain eye wash fountain and quick-drench facilities in work area.

Work/Hygienic Practices: Wash well after handling. Avoid breathing vapors

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