



Material Safety Data Sheet

I. PRODUCT IDENTIFICATION: pH 10.00 Buffer: TI-PH10-500, TI-PH10-250

PRODUCT USE: Calibration Solution

II. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT Sodium Tetraborate
COMPONENT Sodium Hydroxide (approx 0.004M/l)
COMPONENT Blue Dye
COMPONENT Deionized Water (H₂O)

III. HAZARDS IDENTIFICATION

Low hazard for normal usage.

Harmful if swallowed. May irritate eyes and skin.

TARGET ORGANS: Skin.

ACUTE TOXICITY: Low hazard.

CHRONIC TOXICITY: Possible skin irritation from prolonged exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Disease of the skin.

IV. FIRST AID MEASURES

EYE AND SKIN CONTACT: Wash off with large amounts of water.

INGESTION: Give large amounts of water. Consult physician.

INHALATION: Not hazardous

V. FIRE FIGHTING MEASURES

FLASH POINT: NA

AUTOIGNITION POINT: NA

FLAMMABILITY LIMITS: UPPER: NA LOWER: NA

EXTINGUISHING MEDIA: Water, CO₂, dry chemical or foam.

VI. ACCIDENTAL RELEASE MEASURES

Take up with absorbent materials. Place in small containers for disposal. Wash spill site after material pick up is complete.

VII. HANDLING AND STORAGE

Wear eye protection and gloves when working with this product.

Avoid contact with eyes, skin or clothing. Avoid ingestion.

Tightly closed, avoid prolonged exposure to light

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VIII. EXPOSURE CONTROLS/ PERSONAL PROTECTION

PROTECTIVE EQUIPMENT: Safety glasses, lab coat and gloves.

IX. PHYSICAL AND CHEMICAL PROPERTIES

STATE:	Blue liquid
ODOR THRESHOLD:	None
SENSITIVITY TO MECHANICAL IMPACT:	None
SENSITIVITY TO STATIC DISCHARGE:	None
COEFFICIENT OF OIL/WATER DISTRIBUTION:	None
SOLUBILITY IN WATER:	Soluble pH: 10.00
SPECIFIC GRAVITY:	1.0
BOILING POINT:	100°C
MELTING POINT:	Not determined
VAPOR DENSITY:	Not determined

X. STABILITY AND REACTIVITY

Product is stable. Hazardous polymerization will not occur.

Incompatibles: Magnesium and sodium salts.

Hazardous decomposition product: Fumes from phosphates.

XI. TOXICOLOGICAL INFORMATION

Route of Exposure: May irritate skin. May be harmful if swallowed.

XII. ECOLOGICAL INFORMATION

As for boron compounds in general, possibility of boric acid developing, toxic to aquatic organisms and fish in high concentrations. No ecological problems are to be expected when the product is handled with due care and attention.

XIII. DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with Federal, State and Local Regulations.

XIV. TRANSPORT INFORMATION

Product is not hazardous for transport.

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