



Material Safety Data Sheet

I. PRODUCT IDENTIFICATION: pH 4.01 Buffer: TI-PH4-500, TI-PH4-250

PRODUCT USE: Calibration Solution

II. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT Potassium Hydrogen Phthalate (C₈H₅O₄K)

COMPONENT Red 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 hazards because of low concentration of salts.

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

Always wear eye protection and gloves when working with this product.

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

VIII. EXPOSURE CONTROLS/ PERSONAL PROTECTION

PROTECTIVE EQUIPMENT: Safety glasses, lab coat and gloves.

IX. PHYSICAL AND CHEMICAL PROPERTIES

STATE:	Light red 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: 4.01
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: Nitric acid.

Hazardous decomposition product: None.

XI. TOXICOLOGICAL INFORMATION

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

XII. ECOLOGICAL INFORMATION

None available.

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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