

I. PRODUCT AND COMPANY IDENTIFICATION:

CATALOG NUMBER: 00653-04
 PRODUCT NAME: pH Electrode Storage Solution
 PRODUCT USE: Reagent
 NFPA RATINGS: HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0
 MANUFACTURER'S NAME: Thermo Fisher Scientific, Inc
 ADDRESS: 22 Alpha Road, Chelmsford MA 01824, USA
 PHONE NUMBER FOR INFORMATION: 978-232-6000
 CHEMTREC® 24 hr Emergency: US 800-424-9300; International 703-527-3887

II. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT		%	LD ₅₀ mg/kg
CAS NO.	Potassium Dihydrogen Phosphate (KH ₂ PO ₄) 7778-77-0	<1	4,640 (SKN-RBT)
CAS NO.	Potassium Chloride (KCl) 7447-40-7	11	2,500 (ORL-GPG)
CAS NO.	Disodium Hydrogen Phosphate (Na ₂ HPO ₄) 7558-79-4	<1	17,000 (ORL-RAT)
CAS NO.	Deionized Water (H ₂ O) 7732-18-5	>88	190,000 (IPR-MUS)

III. HAZARDS IDENTIFICATION

May cause irritation to eyes and skin.
 TARGET ORGANS: Eyes, skin.
 ACUTE TOXICITY: Ingestion of large amount may cause gastrointestinal irritation and vomiting.
 CHRONIC TOXICITY: No information found.
 MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: May cause stinging or irritation in an open cut. Persons with impaired kidney function may be more susceptible to the effect of KCl.

IV. FIRST AID MEASURES

EYE AND SKIN CONTACT: Wash off contact area with soap and water.
 INHALATION: Not hazardous.
 INGESTION: Dilute with water and consult physician.

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 and skin. Do not ingest.
 Store at room temperature. Keep away from heat and keep container closed.

VIII. EXPOSURE CONTROLS/ PERSONAL PROTECTION

OSHA & ACGIH THRESHOLD LIMIT: None listed.
 PROTECTIVE EQUIPMENT: Safety glasses, lab coat and gloves.

IX. PHYSICAL AND CHEMICAL PROPERTIES

STATE: Clear colorless 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: 6.3 – 6.9
 SPECIFIC GRAVITY: 1.05
 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: Oxidizers, strong acids and bases, bromine trifluoride, potassium permanganate plus sulfuric acid.
 Hazardous decomposition product: May emit toxic fumes of sodium, potassium and phosphorus oxides when heated to decomposition.

XI. TOXICOLOGICAL INFORMATION

Route of Exposure: Eyes, skin.
 Teratogen Status: None
 Mutagen Status: None
 Reproductive Toxicity: None
 Carcinogen Status: None

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.

XV. REGULATORY INFORMATION

EUROPEAN INFORMATION:

RISK PHRASES: None.
 SAFETY PHRASES: S24/25 Avoid contact with skin and eyes. S37/39 Wear suitable gloves and eye/face protection.

US/ CANADA INFORMATION:

SARA/Title III: Regulated under Section 302. Na₂HPO₄ is a CERCLA hazard and regulated under Section 304.
 Cal. Proposition 65: Ingredients not listed.
 US TSCA Inventory: Ingredients are listed.
 CPR Class: None.
 TDG Class: None.
 MSDS discloses elements required by the CPR.

XVI. OTHER INFORMATION

THE ABOVE INFORMATION IS BELIEVED TO BE ACCURATE AND REPRESENTS THE BEST INFORMATION CURRENTLY AVAILABLE TO US. ALL PRODUCTS ARE OFFERED IN ACCORDANCE WITH THE MANUFACTURER'S CURRENT PRODUCTION SPECIFICATIONS AND ARE INTENDED SOLELY FOR USE IN ANALYTICAL TESTING. THE MANUFACTURER SHALL IN NO EVENT BE LIABLE FOR ANY INJURY, LOSS OR DAMAGE RESULTING FROM THE HANDLING, USE OR MISUSE OF THESE PRODUCTS.

MSDS prepared by Environmental, Health and Safety.