



P.O. Box 5136  
Vernon Hills IL 60061, USA  
Phone: 888-462-5866 Fax: 847-247-2984 E-mail: [info@4oakton.com](mailto:info@4oakton.com)

# Oakton 00653-06 pH Electrode Cleaning Solution Material Safety Data Sheet

## I. PRODUCT AND COMPANY IDENTIFICATION:

CATALOG NUMBER: 00653-06

PRODUCT NAME: pH Electrode Cleaning Solution

PRODUCT USE: Reagent

NFPA RATINGS: HEALTH: 2 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

		%	LD <sub>50</sub> mg/kg
COMPONENT	Pepsin		
CAS NO.	9001-75-6	0.5	Not available
COMPONENT	Hydrochloric Acid (HCl)		
CAS NO.	7647-01-0	<0.4	700 (ORL-RAT)
COMPONENT	Methylparaben (C <sub>8</sub> H <sub>8</sub> O <sub>3</sub> )		
CAS NO.	99-76-3	<0.1	2,100 (ORL-RAT)
COMPONENT	Deionized Water (H <sub>2</sub> O)		
CAS NO.	7732-18-5	>94	190,000 (IPR-MUS)

## III. HAZARDS IDENTIFICATION

May be harmful if swallowed. May cause irritation to eyes, skin, and respiratory tract.

HCl is present in such low concentration that this product does not present any immediate threat to health and safety.

TARGET ORGANS: Eyes, skin, respiratory tract.

ACUTE TOXICITY: Irritation of skin, eyes and respiratory tract.

CHRONIC TOXICITY: Repeated and prolonged exposure may cause allergic reaction in sensitive individuals and destructive effect on tissues.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Disease of skin, eyes, or impaired respiratory function.

## IV. FIRST AID MEASURES

EYE AND SKIN CONTACT: Wash off contacted area with water at least 15 minutes. Consult physician if irritation develops.

INHALATION: Remove to fresh air. Give artificial respiration if necessary.

INGESTION: Have victim rinse mouth thoroughly with water. DO NOT INDUCE VOMITING. Have victim drink 240 to 300 mL (8 to 10 oz.) of water to dilute material in stomach. If milk is available, it may be administered AFTER the water has been given. Consult physician.

## V. FIRE FIGHTING MEASURES

FLASH POINT: NA AUTOIGNITION POINT: NA  
FLAMMABILITY LIMITS: UPPER: NA LOWER: NA  
EXTINGUISHING MEDIA: Dry chemical, water, foam or CO<sub>2</sub>.

## VI. ACCIDENTAL RELEASE MEASURES

Absorb spill with inert material and set aside for waste 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. Do not ingest.  
Store at room temperature. Keep away from heat and keep container closed.  
Store away from bases and oxidizing agents.

## VIII. EXPOSURE CONTROLS/ PERSONAL PROTECTION

OSHA PERMISSIBLE EXPOSURE LIMIT (PEL): For HCl, 5 ppm (Ceiling).  
ACGIH THRESHOLD LIMIT VALUE (TLV): For HCl, 2 ppm (Ceiling).  
PROTECTIVE EQUIPMENT: Safety glasses, lab coat and gloves.

## IX. PHYSICAL AND CHEMICAL PROPERTIES

STATE: Clear to slight yellow liquid ODOR THRESHOLD: Slight odor  
SENSITIVITY TO MECHANICAL IMPACT: None  
SENSITIVITY TO STATIC DISCHARGE: None  
COEFFICIENT OF OIL/WATER DISTRIBUTION: None  
SOLUBILITY IN WATER: Soluble pH: approx. 1.1  
SPECIFIC GRAVITY: 1.02  
BOILING POINT: NA MELTING POINT: NA  
VAPOR DENSITY: NA

## X. STABILITY AND REACTIVITY

Product is stable. Hazardous polymerization will not occur.  
Incompatibles: Strong oxidizing agents, bases, alcohols, metals.  
Hazardous decomposition product: May emit toxic fumes of carbon monoxides, carbon dioxides, hydrogen chloride gas when heated to decomposition.

## XI. TOXICOLOGICAL INFORMATION

Route of Exposure: Eyes, skin, respiratory tract.  
Teratogen Status: Effects have occurred with HCl.  
Mutagen Status: Effects have occurred with HCl and Pepsin.  
Reproductive Toxicity: Effects have occurred with HCl.  
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. S26 In case of contact with eyes rinse immediately with plenty of water and seek medical advice. S36/37/39 Wear suitable protective clothing, gloves, and eye/face protection.

US/ CANADA INFORMATION:

SARA/Title III: HCl is regulated under Section 302 and CERCLA.  
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.

Document Number 264876-001 Rev. D Effective Date: 2013-03-11