



Section I. Product Identification

Product Name: pH Electrode Storage Solution	Catalog No. CS0001-MSDS	Effective Date 10/01/02
Hazardous Shipment Labeling: DOT None	IATA None	
Prepared by 	Title Quality Assurance Chemist	
Approved by 	Title Director Regulatory Matters	

Section II - Hazard Ingredients/Identity Information

Hazardous Components Specific Chemical Identity; Common Name(s)	CAS No.	%	OSHA PEL	ACGIH TLV	LD ₅₀
Potassium Chloride (KCl)	7447-40-7	15	None Listed	None Listed	938 (ORL-INF)
Potassium hydrogen phthalate (KHC ₈ H ₄ O ₄)	877-24-7	0.6	None Listed	None Listed	None Listed
Thymol (C ₁₀ H ₁₄ O)	89-83-8	Trace	None Listed	None Listed	None Listed
Deionized Water (H ₂ O)	7732-18-5	84	None Listed	None Listed	190,000 (IPR-MUS)

Section III - Physical/Chemical Characteristics

Boiling Point 750mm Hg	100°C	Freezing Point	-3°C
Specific Gravity (H₂O = 1)	1.05	Vapor Pressure at	NA
pH at 25 °C	(6.3-6.9)	Solubility in water, % by wt at 25°C	Miscible
Volatiles, % by wt	None	Evaporation Rate (Butyl Acetate = 1)	NA
Vapor Density (AIR = 1) NA			
Appearance and Odor Colorless, Odorless liquid			

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used) Not flammable	Flammable Limits	LEL NA	UEL NA
Extinguishing Media None			
Special Fire Fighting Procedures None, this solution is non-flammable.			
Unusual Fire and Explosion Hazards None			

Section V - Reactivity Data

Stability		Conditions to Avoid
Unstable	Stable X	None
Incompatibility (Materials to Avoid): Magnesium and sodium metals.		
Hazardous Decomposition or Byproducts May emit toxic POx fumes if heated to decomposition.		
Hazardous Polymerization		Conditions to Avoid
May Occur	Will Not Occur X	Heating to decomposition.



MATERIAL SAFETY DATA SHEET

WQ-ORP

Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation? No	Skin? No	Ingestion? No
Health Hazards (<i>Acute and Chronic</i>) Low hazard for both acute and chronic because of low concentration of phosphate salt.			
Carcinogenicity: Not found on these lists.	NTP?	IARC Monographs?	OSHA Regulated?
Signs and Symptoms of Exposure Skin irritation, redness or rash			
Medical Conditions Generally Aggravated by Exposure Could aggravate diseases of the skin.			
Emergency and First Aid Procedures Skin and eyes - Wash off contact area with large amounts of water. If ingested, give large amounts of water. Consult a physician.			

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled	Wash down drain with excess water if local law allows.
Waste Disposal Method	Consult Federal, State, and local laws when disposing of this product.
Precautions to Be taken in Handling and Storing Suitable for any general handling and storage. NFPA rating: Scale (0-4); Health -1, Fire - 0, Reactivity -0, Specific - None	
Other Precautions SARA TITLE III. Components reported in EPA TSCA inventory.	

Section VIII - Control Measures

Respiratory Protection (<i>Specify Type</i>) None	
Ventilation	Local Exhaust None
	Mechanical (<i>General</i>) None
Protective Gloves None	Eye Protection Safety glasses
Other Protective Clothing or Equipment Lab coat. Eye wash station should be available.	
Work/Hygienic Practices Wash hands after working with this product. No eating or drinking while working with this product.	