

MATERIAL SAFETY DATA SHEET

I. PRODUCT IDENTIFICATION

Product Name: Orion Application Solution-pH Electrode Storage Solution	Catalog No. 910001, 910060, 9100CB	Effective Date 11/3/00
Hazardous Shipment Labeling:	DOT None	IATA None
Prepared By <i>J. Flynn</i>	Title Quality Assurance Chemist	
Approved By <i>J. Flynn</i>	Title Director Regulatory Matters	

II. HAZARDOUS INGREDIENTS (IDENTIFY INFORMATION)

Hazardous Components * Specific Chemical Identity: Common Name(s)	CAS NO.	%	OSHA PEL	ACGIH TLV	LD ₅₀ mg/Kg
***Potassium Chloride (KCl)	7447-40-7	11	None Listed	None Listed	2600 (ORL-RAT)
Potassium Phosphate Monobasic (KH ₂ PO ₄)	7778-77-0	<1	None Listed	None Listed	NA**
Sodium Phosphate Dibasic (Na ₂ HPO ₄)	7558-79-4	<1	None Listed	None Listed	170,000 (ORL-RAT)
***Deionized Water (H ₂ O)	7732-18-5	>88	None Listed	None Listed	190,000 (IPR-MUS)

III. PHYSICAL DATA

Boiling Point 750mm Hg	100°C	Freezing Point	-3°C
Specific Gravity (H ₂ O=1)	1.05	Vapor Pressure @ 25°C	NA**
pH @ 25°C	6.3 - 6.9	Solubility In Water, % by Wt @ 25°C	Miscible
Volatiles % By Wt.	NA	Evaporation Rate (BUTYL, ACETATE = 1)	NA
Vapor Density (AIR = 1)	NA		
Appearance and Odor	Clear, colorless, odorless liquid		

IV. FIRE AND EXPLOSION HAZARD DATA

Flash Point (Test Method)	NA	Autoignition Temperature	NA
Flammable Limits in air, % by volume:	Lower NA	Upper NA	
Extinguishing Media	Dry chemical, water, foam, or CO ₂		
Special Fire-Fighting Procedures	None, this solution is non-flammable.		
Unusual Fire and Explosion Hazards	None		

*Chemicals which are not classified as hazardous per U.S. OSHA guidelines (29CFR Parts 1915.2 or 1916.2) or the Massachusetts Substance List (105CMR670.000 Appendix A) will not necessarily be listed on this form even though one or more may be a constituent of this product

** NA Not available/not applicable

*** Non-hazardous component

Liability is expressly disclaimed for any loss or injury arising out of the use of this information or the use of any materials designated. Safe use of the materials is the responsibility of the user.

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V. REACTIVITY DATA

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

VI. HEALTH HAZARD DATA

Route(s) Of Entry:	Inhalation?	Skin?	Ingestion?
	No	No	No
Health Hazards (acute and chronic) Low hazard for both acute and chronic because of low concentration of phosphate salts. This composition is also used as a buffer in pharmaceuticals.			
Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
Not found on these lists			
Signs and Symptoms of Exposure Irritation of skin			
Medical Conditions Generally Aggravated by Exposure		Could aggravate diseases of the skin.	
Emergency And First Aid Procedures Wash off contact area with soap with water. If ingested: Dilute with water and consult physician.			

VII. PRECAUTIONS (SAFE HANDLING AND USE)

Steps To be Taken In Case Material Is Released or Spilled Clean up and wash down drain if local law allows
Waste Disposal Method Wash down drain. Observe all Federal, State and Local laws when disposing of this product.
Precautions To Be Taken In Handling and Storing <u>NEPA Rating:</u> Scale (0-4); Health - 1, Fire - 0, Reactivity - 0, Specific - None.
Other Precautions <u>SARA TITLE III</u> Na ₂ HPO ₄ is a <u>CERCLA</u> hazard and releases are subject to Section 304 of <u>Title III</u> . Not found on <u>Cal. Prop. 65</u> . Components reported in <u>EPA</u> TSCA inventory.

VIII. CONTROL MEASURES

Respiratory Protection (specify type)			None
Ventilation	Local Exhaust	Special	None
	None		
Ventilation	Mechanical (General)	Other	None
	None		
Protective Gloves	None	Eye Protection	Safety Glasses
Other Protective Clothing Or Equipment Eye wash station should be available.			
Work/Hygienic Practices No eating or drinking in work area. Wash hands after working with this product.			

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