



Analytical Sensors & Instruments Ltd.

12800 Park One Drive
 Sugar Land, TX 77478-2521
 Phone: (281)-565-8818; Fax: (281)-565-8811
 Email: info@asi-sensors.com

MATERIAL SAFETY DATA SHEET

Section I. PRODUCT IDENTIFICATION

Product Name: Solution, Potassium ISE Ionic Strength Adjustor Solution, 1.0M NaCl (Sodium Chloride)	Catalog No. AJ0KT-xx or AJ0016-xx	Effective Date: 5 May, 2008
Hazardous Shipment Labeling:	DOT: None	IATA: None
Prepared by: George C. Barone III, Ph.D.	Title: Senior Research Chemist	
Approved by: George C. Barone III, Ph.D.	Title: Director Regulatory Compliance	

Section II. HAZARDOUS INGREDIENTS/Identity Information

Hazardous Components* Specific Chemical Identity; Common Name(s)	CAS No.	%	OSHA PEL	ACGIH TLV	LD ₅₀ mg/Kg
Sodium Chloride (NaCl)	7647-14-5	<6	None Listed	None Listed	3,000 (ORL-RAT)
Non-hazardous Component**	NA	<1	None Listed	None Listed	NA
Deionized Water (H ₂ O)**	7732-18-5	>93	None Listed	None Listed	190,000 (IPR-MUS)

Section III. PHYSICAL/CHEMICAL DATA AND CHARACTERISTICS

Boiling Point at 760 mmHg	NA	Freezing Point	NA
Specific Gravity (H₂O = 1)	NA	Vapor Pressure at 25°C	NA
pH at 25°C	NA	Solubility in water, % by wt	Miscible
Volatiles, % by wt	NA	Evaporation Rate (B A = 1)	NA
Vapor Density (AIR = 1): NA			
Appearance and Odor: Clear, colorless, and odorless liquid			

Section IV. FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): NA	Auto-ignition Temperature: NA	Flammable Limits	Lower	Upper
		In air, % by volume:	NA	NA
Extinguishing Media: Dry chemical, water, foam, or CO ₂ Use media appropriate to surrounding fire conditions				
Special Fire Fighting Procedures: NONE, this solution is non-flammable. As in any fire, wear self-contained breathing apparatus pressure-demand and full protective gear.				
Unusual Fire and Explosion Hazards: NONE. This product will not burn or explode.				

*Chemicals that are not classified as hazardous by U.S. OSHA guidelines (29 CFR Parts 1915.2 or 1916.2) will not necessarily be listed herein even though one or more may be in this product.

** Non-hazardous component

NA = Not available/Not applicable



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Section V. REACTIVITY DATA

Stability: Unstable Stable X	Conditions to Avoid: Lithium, bromine trifluoride, water incompatibles, or extreme Temperatures
Incompatibility (Materials to Avoid): Bromine Trifluoride, Magnesium, sodium metals, or strong mineral acids and bases	
Hazardous Decomposition or Byproducts: When heated above 801°C (1474°F) it emits toxic fumes of chloride and sodium oxide.	
Hazardous Polymerization: May Occur Will Not Occur X	Conditions to Avoid: Extreme Temperatures

Section VI. HEALTH HAZARD DATA

Route(s) of Entry: Inhalation? YES Skin? YES Ingestion? YES
Health Hazards (Acute and Chronic): May cause irritation in contact areas. May cause eye irritation. Ingestion of very large doses may cause nausea, vomiting, or acidosis.
Carcinogenicity: NTP? IARC Monographs? OSHA Regulated? Not found on these lists
Signs and Symptoms of Exposure: May cause irritations to eyes, skin, mucous membranes or digestive tract. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Medical Conditions Generally Aggravated by Exposure: May cause eye irritation, may be harmful or cause irritation if swallowed, inhaled, or allowed to come in contact with the skin. Will sting in an open cut.
Emergency and First Aid Procedures: Eye Contact: Immediately flush eyes with copious amounts of water, separate eyelid from eye. Call physician if irritation develops. Skin Contact: Wash effected area with soap and copious amounts of water. Call physician if irritation develops. Ingestion: Wash out mouth if person is conscious. Give 1 to 2 glasses of water. Call physician if you feel unwell. Inhalation: Remove to fresh air, if not breathing give artificial respiration, if breathing is difficult give oxygen. Call physician if you feel unwell.

Section VII. PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken in Case Material is Released or Spilled: Clean up then dispose of properly according to local laws. Observe all Federal, State and Local laws when disposing of this product.
Waste Disposal Method: Observe all Federal, State and Local laws when disposing of this product.
Precautions to Be taken in Handling and Storing: Avoid contact with eyes. Wash hands thoroughly after use. NFPA Rating: Scale (0-4): Health – 1, Fire – 0, Reactivity – 0, Specific – None.
Other Precautions: NONE. The solid used to make this solution is found on the TSCA list and on the SARA 311/312 list and is listed as Acute: yes, Chronic: no, Fire: no, Pressure: no, Reactivity: no.

Section VIII. CONTROL MEASURES

Respiratory Protection (Specify Type) Wear appropriate respirator if ventilation is inadequate	
Ventilation Local Exhaust: NONE	Special: NONE
Ventilation Mechanical (General): NONE	Other: NONE
Protective Gloves: Disposable latex gloves or similar	Eye Protection: Safety Glasses with top and side shields
Other Protective Clothing or Equipment: Eye wash station should be available. Wear protective garments if sensitive skin.	
Work/Hygienic Practices: No eating or drinking in work area. Wash hands after working with this product.	

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

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