

MATERIAL SAFETY DATA SHEET

I. Chemical Product and Company Identification

Product Name: Potassium Chloride, 4M, Saturated with Silver Chloride (Reference Filling Solution)	Manufacturer: Aqua Phoenix Scientific, Inc. 320 Maple Ave. Hanover, PA 17331 Telephone: 866 632 1291 Fax: 717 633 1285	Emergency Contact: INFOTRAC Emergency Response Hotline: 1-800-535-5053 (in the U.S. and Canada) 1-352-323-3500 www.infotrac.net
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II. Composition, Information on Ingredients

Hazardous Components Specific Chemical Identity: Common Names	CAS NO.	%	OSHA PEL	ACGIH TLV
Potassium Chloride	7447-40-7	30% w/v	N/A	N/A
Water, purified	7732-18-5	>70% w/v	N/A	N/A

III. Hazard Identification

Emergency Overview: May cause irritation to the eyes and skin. Wash areas of contact. Get medical attention if irritation develops.

Target Organs: Eyes, and skin

Eyes	May cause irritation, redness, pain, tearing
Skin	May cause irritation, redness, pain
Ingestion	May cause upset stomach
Inhalation	Not likely to be a hazard by inhalation
Chronic Effect /Carcinogenicity	None (IARC, NTP, OSHA)

IV. First Aid

Eyes	Immediately flush eyes with water for at least 15 minutes. Immediately get medical assistance
Skin	Flush with water for 15 minutes. Get medical assistance if irritation develops
Ingestion	Dilute with water or milk. Get medical assistance
Inhalation	Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen

V. Fire Fighting Measures

Flash Point	N/A
Extinguishing Media	Any means suitable for extinguishing fire
Fire and Explosion Hazards	Not considered to be a fire or explosion hazard
Fire Fighting Instructions/Equipment	Use normal procedures. Use protective clothing. Use NIOSH-approved breathing equipment
NFPA Rating	(estimated) Health: 1; Flammable: 0; Reactivity: 0

VI. Accidental Release Measures

Absorb with suitable material. Always obey local regulations.

VII. Handling and Storage

Handling	Wash hands after handling. Avoid contact with skin and eyes.
Storage	Protect from freezing and physical damage. Store above 20°C to prevent crystallization. If crystallization does occur, gently warm in hot water bath and occasionally agitating to re-dissolve

VIII. Exposure Controls, Personal Protection

Engineering Controls	Normal ventilation is adequate
Respiratory Controls	Normal ventilation is adequate
Skin Protection	Chemical resistant gloves
Eye Protection	Safety Glasses or goggles

IX. Physical and Chemical Properties

Appearance	Clear, colorless liquid	Odor	Odorless
pH @ 25°C	N/A	Solubility in Water	Infinite
Boiling Point	Approx 100°C	Specific Gravity	Approx 1.13-1.17
Melting point	Approx 0°C	Vapor Pressure	N/A

X. Stability and Reactivity

Chemical Stability	Stable under normal conditions of use and storage
Incompatibility	Bromine trifluoride and potassium permanganate with sulfuric acid
Hazardous Decomposition Products	Oxides of potassium
Hazardous Polymerization	Does not occur

XI. Toxicological Information

LD50 orl-rat	2600 mg/kg (Potassium Chloride)
LC50 inhalation-rat	N/A

XII. Ecological Information

Ecotoxicity	N/A
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XIII. Disposal Considerations

Absorb with suitable material. All chemical waster generators must determine whether a discarded chemical is classified as hazardous waste. Comply with all local, state, and federal regulations.
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XIV. Transport Information

DOT	Not Regulated
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XV. Regulatory Information (not meant to be inclusive)

OSHA Status	These chemicals are not considered highly hazardous by OSHA
TSCA	The components of this solution are listed on the TSCA Inventory
SARA Title III Section 313	N/A
RCRA Status	N/A
CERCLA Reportable Quality	N/A
WHMIS	N/A

XVI. Additional Information

Issue Date: 3/9/07

Revision Date: 3/9/09

* N/A – Not Applicable/Not Available

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