



POTASSIUM CHLORIDE SOLUTION, 4 Molar, Saturated With Silver Chloride

Safety Data Sheet

Section 1: Chemical Product and Company Identification

Catalog Number: A001628	
Product Identity: POTASSIUM CHLORIDE SOLUTION, 4 Molar, Saturated With Silver Chloride	
Manufacturer's Name: EZkem	Emergency Contact(24 hr) -- CHEMTREC® Domestic: 800-424-9300 International: 703-527-3887
Address: 1045 Cannon Drive Hood River, OR 97031	Telephone Number For Information: 817-461-5601
Date Prepared: 4/6/99	Revision: 7 Last Revised: 03/21/2013 Date Printed: 04/05/2013 1:47:43 pm

Section 2. Composition/Information on Ingredients

Component	CAS Registry #	Concentration	ACGIH TLV	OSHA PEL
Potassium Chloride	7447-40-7	20 - 30% (w/v)	Not Available	Not Available
			Not Available	Not Available
Water, Deionized	7732-18-5	Balance	Not Available	Not Available
			Not Available	Not Available
Silver Nitrate	7761-88-8	<0.1% (w/v)	Not Available	Not Available
			0.1 mg/m3	0.1 mg/m3

Section 3: Hazard Identification

Emergency Overview: Non-flammable, non-toxic, non-corrosive. Does not present any significant health hazards. Wash areas of contact with water.

Target Organs: eyes, skin

Eye Contact: May cause slight irritation.

Inhalation: Not likely to be hazardous by inhalation.

Skin Contact: May cause slight irritation.

Ingestion: Large quantity may cause stomach upset.

Chronic Effects/Carcinogenicity: None

IARC - No.

NTP - No.

OSHA - No.

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Reproductive Information: Reproductive effects cited in 'Registry of Toxic Effects of Chemical Substances' for Silver Nitrate. Reproductive effects cited in 'Registry of Toxic Effects of Chemical Substances' for Silver Nitrate.

Teratology (Birth Defect) Information: Mutation data cited in 'Registry of Toxic Effects of Chemical Substances' for Silver Nitrate. Mutation data cited in 'Registry of Toxic Effects of Chemical Substances' for Potassium Chloride. Mutation data cited in 'Registry of Toxic Effects of Chemical Substances' for

Section 4: First Aid Measures - In all cases, seek qualified evaluation.

Eye Contact: Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops.

Inhalation: Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen.

Skin Contact: Flush with plenty of water for at least 15 minutes. Call a physician if irritation develops.

Ingestion: Dilute with water or milk. Call a physician if necessary.

Section 5: Fire Fighting Measures

Flash Point: Not Available.

Method Used: Not Available.

LFL: Not Available.

UFL: Not Available.

Extinguishing Media: Use any means suitable for extinguishing surrounding fire.

Fire & Explosion Hazards: Not considered to be a fire or explosion hazard.

Fire Fighting Instructions: Use normal procedures/instructions.

Fire Fighting Equipment: Use protective clothing and breathing equipment appropriate for the surrounding fire.

Section 6: Accidental Release Measures

Absorb with suitable inert material (vermiculite, dry sand, etc) and place in a chemical waste container for proper disposal. Do not flush to sewer. Dispose of in accordance with local regulations.

Section 7. Handling and Storage

As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage. Store above 20oC to prevent crystallization. If crystallization does occur, warm gently in a hot water bath and agitate occasionally to redissolve.

Safety Storage Code: General

Section 8: Exposure Control/Personal Protection

Engineering Controls: No specific controls are needed. Normal room ventilation is adequate.

Respiratory Protection: Normal room ventilation is adequate.

Skin Protection: Chemical resistant gloves.

Eye Protection: Safety glasses or goggles.

Section 9: Physical and Chemical Properties

Appearance: Clear, colorless liquid

Odor: Odorless

Solubility in Water: Infinite

Specific Gravity: Approximately 1.13 - 1.17

pH: app 7

Boiling Point(°C): Approximately 100

Melting Point(°C): Approximately 0

Vapor Pressure: Not Applicable.

Section 10: Stability and Reactivity

Chemical Stability: Stable under normal conditions of use and storage.

Incompatibility: Bromine Trifluoride, Potassium Permanganate plus Sulfuric Acid.

Hazardous Decomposition Products: Toxic fumes of nitrogen oxides may be emitted when heated to decomposition . Oxides of potassium

Hazardous Polymerization: Will not occur.

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Section 11. Toxicological Information

LD50, Oral, Rat: (Potassium Chloride) 2600 mg/kg, details of toxic effects not reported other than lethal dose value ; Irritation (Potassium Chloride): eye, rabbit (500mg/24 hr mild); LD50, Oral, Rat: (Silver Nitrate) 1173 mg/kg, behavioral, respiratory and gastrointestinal effects noted . Silver Nitrate is investigated as a tumorigen.

Section 12. Ecological Information

Ecotoxicological Information: No information found.

Chemical Fate Information: No information found.

Section 13. Disposal Considerations

Absorb with suitable material and dispose of in accordance with local regulations. Do not flush to sewer. Dispose of in a RCRA approved waste disposal facility . Always dispose of in accordance with local, state and federal regulations.

Section 14. Transport Information

Part Numbers:

This product is not regulated.

Section 15. Regulatory Information (Not meant to be all inclusive - selected regulation represented)

OSHA Status:The above items either do not contain any specifically hazardous material or the potentially hazardous material is present in such low concentration that the items do not present any immediate threat to health and safety. These items do not meet the OSHA Hazard Communication Standard (29 CFR 1910.1200) definition of a hazardous material.

TSCA Status:All components of this solution are listed on the TSCA Inventory or are mixtures (hydrates) of items listed on the TSCA Inventory.

Sara Title III:

Section 302 Extremely Hazardous Substances:Not Applicable.

Section 311/312 Hazardous Catagories:No

Section 313 Toxic Chemicals:Not Applicable.

California: None Reported.

Pennsylvania: Silver Nitrate is listed as an Environmental Hazard on the state's Hazardous Substances List. Silver Nitrate is listed as an Environmental Hazard on the state's Hazardous Substances List.

RCRA Status: D011,D011

CERCLA Reportable Quantity: Silver Nitrate - 1 pounds. Silver Nitrate - 1 pounds.

WHMIS: Not Applicable.

Section 16. Other Information

NFPA Ratings:

Health: 1

Flammability: 0

Reactivity: 0

Special Notice Key:None

HMIS Ratings:

Health: 1

Flammability: 0

Reactivity: 0

Protective Equipment:B (Protective Eyewear, Gloves)

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When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and EZkem assumes no legal responsibility or liability whatsoever resulting from its use.

