



MATERIAL SAFETY DATA SHEET

Revision Date: 7/2/2003

Identity: Potassium Chloride Solution Saturated with Silver Chloride

Form/Aspect: KCl salts with trace AgCl dissolved in water

Use: Electrolyte Solution for electrodes with an Ag/AgCl reference.

(AccuRef 60 Part# 14600 & AccuRef 20 Part# 14620)

(Silver Chloride Portable Electrodes: Part # 13175, 13180, 13100, 13150, 13125, & 15624)

Section 1 – Chemical Product and Company Information

MSDS Name: Potassium Chloride Solution Saturated with AgCl

Company Identification: M. C. Miller Co., Inc.
3020 Aviation Boulevard
Vero Beach, FL 32960

Synonyms: None

Telephone: 772-794-9448

Fax: 772-794-9908

E-mail: sales@mcmiller.com

Emergency Numbers: M. C. Miller Co., Inc. 772-794-9448

Chemtrec – 800-424-9300 (US)

Chemtrec – 703-527-3887 (International)

Section 2 – Composition, Information on Ingredients

CAS#	Chemical Name	%	EINECS#
7447-40-7	Potassium Chloride (KCl)	28.3	231-791-2
7783-90-60	Silver Chloride (AgCl)	.001	233-140-8
7732-18-5	Water	Balance	NA

According to OSHA, this product should not be considered a hazardous material.

OSHA PEL/ACGIH TLV: NA

Section 3 – Physical and Chemical Characteristics

- ✔ Boiling Point: N/A
- ✔ Vapor Density (Water): N/A
- ✔ Melting Point: N/A
- ✔ Appearance/Odor: Clear, odorless liquid
- ✔ Water Solubility: 100% by weight
- ✔ Specific Gravity (H₂O=1): 1.15
- ✔ Evaporation Rate: N/A
- ✔ Vapor Pressure: (mm Hg): N/A
- ✔ Reactivity In Water: N/A

Section 4 - Fire And Explosion Hazard Data

- ✔ Flash Point: N/A
- ✔ Unusual Fire & Explosion Hazards: None
- ✔ Extinguishing Media: Any
- ✔ Flammable Limits:
 - LEL: N/A
 - UEL: N/A
- ✔ Special Fire Fighting Procedures: N/A
- ✔ Identity: Potassium Chloride Solution Saturated with Silver Chloride

Section 5 - Reactivity Data

- **Stability:** Stable
- **Conditions To Avoid:** None Known
- **Hazardous Polymerization:** Will Not Occur
- **Conditions To Avoid:** None Known
- **Incompatibility:** BrF₃
- **Hazardous Decomposition Or Byproducts:** N/A

Section 6 - Health Hazard Data

- **Exposure Limit:**
 - **Potassium Chloride:** Oral-Guinea Pig
 - **LD50:** 2500 mg/kg
- **Route Of Entry:**
 - **Inhalation:** N/A
 - **Skin:** N/A
 - **Ingestion:** Yes
- **Carcinogenicity:**
 - **NTP:** N/A IARC
 - **Monogr:** N/A
 - **OSHA Reg.:** No
- **Health Hazards:** None Known
- **Effects Of Overexposure:** (See below)
- **Emergency & First Aid Procedures:**
 - **Oral:** Large doses cause GI irritation, purging, weakness and circulatory problems. Contact a physician.

Section 7 - Precautions For Safe Handling And Use

- **Spill Response:** Pick up and wash down drain with excess of water.
- **Waste Disposal:** Not regulated.
- **Precautions To Be Taken In Handling & Storage:** Store in cool, dry place.
- **Other Precautions:** N/A

Section 8 - Control Measures

- **Respiratory Protection:** N/A
- **Protective Gloves:** Optional
- **Other Protective Equipment:** None Required
- **Ventilation:** None
- **Eye Protection:** Safety Glasses
- **Work/Hygienic Practices:** Wash hands thoroughly before eating, drinking or smoking.
- **Key:** N/A = Not Applicable Or Not Available
- **N/D =** Not Determined

Section 9 – Additional Information

MSDS Creation Date: March 18, 2002

Revision Date: May 8, 2002

The information contained within this document is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, expressed or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.