

MATERIAL SAFETY DATA SHEET

KCL GEL REFERENCE FILL SOLUTION

SECTION I: GENERAL INFORMATION

PRODUCT NAME: Ref Fill Solution, KCl, Thin Gel, PHE-1304 Series and other generic electrodes

CHEMICAL NAME: Potassium Chloride/Sodium Carboxymethyl-Cellulose/Silver Chloride in Water

CHEMICAL FAMILY: salt solution

DOT SHIPPING INFO: none

IATA SHIPPING INFO: none

SECTION II: INGREDIENTS

CAS NO.	%	CHEMICAL NAME(S)	LD50 (mg/kg) oral-rat	OSHA/PEL ACGIH TLV
7447-40-7	30.00%	Potassium Chloride	383	none
7783-90-6	0.01%	Silver Chloride	330	none
9004-32-4	5.00%	Carboxymethylcellulose, none Sodium Salt		none
7732-18-5	64.99%	Water	-	none

SECTION III: PHYSICAL DATA

BOILING POINT: 104°C

SPECIFIC GRAVITY: 1.26

VAPOR PRESSURE: N/A

FREEZING POINT: -4°C

VAPOR DENSITY: N/A

pH: 5.5-8

WATER SOLUBILITY: Soluble

APPEARANCE & ODOR: Amber, odorless gel-like solution

SECTION IV: FIRE & EXPLOSION HAZARD DATA

FLASHPOINT: Not flammable

AUTOIGNITION TEMPERATURE: N/A

EXTINGUISHING MEDIA: Water, CO₂, dry chemical

SPECIAL FIRE FIGHTING PROCEDURES: N/A

UNUSUAL FIRE & EXPLOSION HAZARDS: N/A

SECTION V: HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: Dizziness, nausea, weakness if taken internally. May cause eye and skin irritation. May be absorbed through skin

EMERGENCY & FIRST AID: Wash off affected area with water or induce vomiting if ingested.

EYES & SKIN: Wash off with large amounts of water for 15 minutes.

INGESTION/INHALATION: Internal-induce vomiting. Consult physician.

SECTION VI: REACTIVITY DATA

STABLE: yes

CONDITIONS TO AVOID: Storing near heat or incompatible chemicals

INCOMPATIBILITY: Reducing agents, B, BaS, Na acetate, Ti, S, trichloroethylene, charcoal

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of nitrogen and carbon upon heating to decomposition

HAZARDOUS POLYMERIZATION: Will not occur

SECTION VII: SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN: Cover spill with dry sand or vermiculite, mix and collect in a well-marked or glass container. Close container tightly. Submit or retain for disposal.

WASTE DISPOSAL METHOD: Observe all federal, state, and local laws for disposal of trihydric alcohols.

SECTION VIII: SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: N/A

VENTILATION: N/A

PROTECTIVE GLOVES: Rubber

EYE PROTECTION: Safety goggles

OTHER PROTECTIVE EQUIPMENT: N/A

SECTION IX: SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING & STORAGE: Store at room temperature and keep cap tightly sealed to protect product integrity. Protect container from physical damage. Wash thoroughly after use. SARA Title III: The chemicals in this product do not appear on this listing.

OTHER PRECAUTIONS: NFPA Rating (0-4): Health-0, Fire-0, Reactivity-0, Specific-0.

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