

-----MATERIAL SAFETY DATA SHEET-----

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Prepared: November 20, 1994. Revised: July 1, 2008.

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-----SUBSTANCE IDENTIFICATION-----

**SUBSTANCE:** -----Potassium Chloride Aqueous Solution, Dilute

**Trade names/synonyms:** This material is also known as Conductivity Standard, at all levels. Also known as Catalog Number 3-xxxx-x.

**Cercla ratings (scale 0-3):** health=0 fire=0 reactivity=0 persistence=0

**Nfpa ratings (scale 0-4):** health=0 fire=0 reactivity=0

-----COMPONENTS AND CONTAMINANTS---

**Component:** potassium chloride CAS# 7447-40-7 percent: <10.0

**Component:** water CAS# 7732-18-5 percent: 90+

**Other contaminants:** Antimicrobials and other additives less than 0.2% *Trade Secrets*.

**Exposure limits:** No occupational exposure limits established by osha, acgih or niosh.

-----PHYSICAL DATA-----

**Description:** clear, colorless liquid.

**Approx. boiling point:** 212°F (100°C). **Approx. melting point:** 32°F (0°C)

**Vapor pressure:** 14 torr @20°C **Evap. Rate: (ether=1)** >1

**pH 4-8 Solubility in water:** complete **Vapor density:** 0.7 (H<sub>2</sub>O)

-----FIRE AND EXPLOSION DATA-----

**Fire and explosion hazard:** no fire hazard when exposed to heat or flame.

**Flash point:** not applicable

-----TOXICITY-----

**potassium chloride:**

**Carcinogen status:** none.

**Local effects:** irritant - skin, eye.

**Acute toxicity level:** no data available.

**Target effects:** no data available.

-----HEALTH EFFECTS AND FIRST AID-----

**INHALATION:** POTASSIUM CHLORIDE

**ACUTE EXPOSURE - MAY CAUSE IRRITATION. CHRONIC EXPOSURE - REPEATED OR PROLONGED EXPOSURE MAY CAUSE IRRITATION. FIRST AID - REMOVE FROM EXPOSURE AREA TO FRESH AIR IMMEDIATELY. IF BREATHING HAS STOPPED, PERFORM ARTIFICIAL RESPIRATION. KEEP PERSON WARM AND AT REST. TREAT SYMPTOMATICALLY AND SUPPORTIVELY. GET MEDICAL ATTENTION.**

**SKIN CONTACT: POTASSIUM CHLORIDE**

**ACUTE EXPOSURE - MAY CAUSE IRRITATION. CHRONIC EXPOSURE - REPEATED OR PROLONGED EXPOSURE MAY CAUSE DERMATITIS. FIRST AID - REMOVE CONTAMINATED CLOTHING AND SHOES IMMEDIATELY, WASH AFFECTED AREA WITH SOAP OR MILD DETERGENT AND LARGE AMOUNTS OF WATER UNTIL NO EVIDENCE OF CHEMICAL REMAINS (APPROXIMATELY 15-20 MINUTES).**

**EYE CONTACT: POTASSIUM CHLORIDE .**

**ACUTE EXPOSURE-DIRECT CONTACT MAY CAUSE IRRITATION, REDNESS AND PAIN. CHRONIC EXPOSURE-REPEATED OR PROLONGED EXPOSURE MAY CAUSE CONJUNCTIVITIS FIRST AID - WASH EYES IMMEDIATELY WITH LARGE AMOUNTS OF WATER OR NORMAL SALINE, OCCASIONALLY LIFTING UPPER AND LOWER LIDS UNTIL NO EVIDENCE OF CHEMICAL REMAINS (APPROXIMATELY 15-20 MINUTES). GET MEDICAL ATTENTION IMMEDIATELY.**

**INGESTION POTASSIUM CHLORIDE .**

**ACUTE EXPOSURE - MAY CAUSE NAUSEA, VOMITING AND DIARRHEA. CHRONIC EXPOSURE - NOT REPORTED TO OCCUR IN HUMANS FIRST AID - IF VICTIM IS CONSCIOUS, IMMEDIATELY GIVE 2-4 GLASSES OF WATER, AND INDUCE VOMITING BY TOUCHING FINGER TO BACK OF THROAT, GET MEDICAL ATTENTION IMMEDIATELY.**

**-----REACTIVITY-----**

**Reactivity: stable under normal temperatures and pressures.**

**Incompatibilities: none known. Decomposition: none known. Polymerization: none known.**

**-----STORAGE AND DISPOSAL-----**

**Observe all federal, state and local regulations when storing or disposing of this substance. For assistance, contact the district director of the environmental protection agency.**

**Storage conditions to avoid: store away from incompatible substances.**

**Water spills: The California safe drinking water and toxic enforcement act of 1986 (prop 65) prohibits contaminating any known source of drinking water with substances known to cause cancer and/or reproductive toxicity.**

**Occupational spill: Flush with water and mop up.**

**-----PROTECTIVE EQUIPMENT-----**

**Special equipment not needed. Due caution in handling any chemical solution is recommended.**