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# Material Safety Data Sheet

**EMERGENCY NUMBERS:**

(USA) CHEMTREC : 1(800) 424-9300 (24hrs)  
 (CAN) CANUTEC : 1(613) 996-6666 (24hrs)

WHMIS	Protective Clothing	TDG Road/Rail
Not controlled under WHMIS (Canada).		Not controlled under TDG (Canada). PIN: Not applicable. PG: Not applicable.
		

## Section I. Product Identification and Uses

Product name	<b>POTASSIUM CHLORIDE SOLUTION 3M</b>	CI#	Not available.
Chemical formula	Not applicable.	CAS#	Not applicable.
Synonyms	C-4190	Code	C-4190
		Formula weight	Not applicable.
		Supersedes	
Material uses	For laboratory use only.		

## Section II. Ingredients

Name	CAS #	%	TLV
1) POTASSIUM CHLORIDE	7447-40-7	10-30	Not established by ACGIH
2) WATER	7732-18-5	Balance	Not established by ACGIH

Toxicity values of the hazardous ingredients

**POTASSIUM CHLORIDE:**  
 ORAL (LD50): Acute: 2600 mg/kg (Rat). 1500 mg/kg (Mouse).  
 INTRAVENOUS (LD50): Acute: 142 mg/kg (Rat). 117 mg/kg (Mouse).  
 INTRAPERITONEAL (LD50): Acute: 660 mg/kg (Rat).

**Section III. Physical Data**

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Physical state and appearance / Odor	Colorless liquid. Odorless.
pH (1% soln/water)	Not available.
Odor threshold	Not applicable.
Percent volatile	<80%
Freezing point	Not available.
Boiling point	Not available.
Specific gravity	Not available.
Vapor density	Not applicable.
Vapor pressure	Not applicable.
Water/oil dist. coeff.	Not available.
Evaporation rate	Not applicable.
Solubility	Miscible in water.

**Section IV. Fire and Explosion Data**

Flash point	Not applicable.
Flammable limits	Not applicable.
Auto-ignition temperature	Not available.
Fire degradation products	Oxides of potassium. Chlorides. Hydrogen chloride.
Fire extinguishing procedures	Use extinguishing media suitable for surrounding materials. Wear adequate personal protection to prevent contact with material or its combustion products. Self contained breathing apparatus with a full facepiece operated in a pressure demand or other positive pressure mode.
Fire and Explosion Hazards	The sensitivity to static discharge is not available. The sensitivity to impact is not available. Emits toxic fumes under fire conditions.

**Section V. Toxicological Properties**

Routes of entry	Eye contact. Inhalation and ingestion.
Effects of Acute Exposure	May be harmful by ingestion and inhalation.
Eye	May cause irritation, redness and conjunctivitis.
Skin	May cause irritation and dermatitis.
Inhalation	May cause respiratory tract irritation. Exposure may cause coughing.
Ingestion	May cause gastrointestinal irritation, nausea, vomiting, weakness, insomnia, cardiac arrhythmia.

**Section V. Toxicological Properties**

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Effects of Chronic Overexposure Passes through the placental barrier in animal. Carcinogenic effects: Not available. Mutagenic effects: Not available. Teratogenic effects: Not available. To the best of our knowledge, the chemical, physical, and toxicity of this substance has not been fully investigated.

**Section VI. First Aid Measures**

**Eye contact** Wash eyes and skin with copious quantities of water for at least 15 min. Call a physician.

**Skin contact** Immediately flush skin with plenty of water and soap for at least 15 minutes while removing contaminated clothing and shoes. Call a physician.

**Inhalation** Remove patient to fresh air. Administer approved oxygen supply if breathing is difficult. Administer artificial respiration or CPR if breathing has ceased. Call a physician.

**Ingestion** If conscious, wash out mouth with water. Have conscious person drink several glasses of water to dilute. Induce vomiting. Call a physician. Never give anything by mouth to an unconscious or convulsing person.

**Section VII. Reactivity Data**

**Stability** Stable. Conditions to avoid: High temperatures, sparks, open flames and all other sources of ignition, contamination.

**Hazardous decomp. products** Not available.

**Incompatibility** Strong oxidizing agents and strong acids. Reacts with: bromine trifluoride, bromine trichloride, sulfuric acid and potassium permanganate.

**Reaction Products** Not available. Hazardous polymerization will not occur.

### Section VIII. Preventive Measures

**Protective Clothing in case of spill and leak** Wear respirator, safety glass, rubber boots and heavy rubber gloves.

**Spill and leak** Absorb on sand or vermiculite and place in a closed container for disposal. Ventilate area and wash spill site after material pick up is complete.

**Waste disposal** According to all applicable regulations.

**Storage and Handling** Store in a cool place away from heated areas, sparks, and flame. Store in a well ventilated area. Store away from incompatible materials. Do not add any other material to the container. Do not wash down the drain. Keep container tightly closed and dry. Manipulate in a well ventilated area or under an adequate fume hood. Handle and open container with care. This product must be manipulated by qualified personnel. Do not get in eyes, on skin, or on clothing. Wash well after use. In accordance with good storage and handling practices. Do not allow smoking and food consumption while handling.

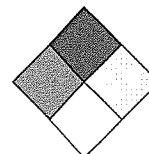
### Section IX. Protective Measures

**Protective clothing** Splash goggles. Impervious gloves, coveralls, and/or other resistant protective clothing. Sufficient to protect skin. Do not wear contact lenses. Make eye bath and emergency shower available. Ensure that eyewash station and safety shower is proximal to the work-station location.

**Engineering controls** Manipulate in a well ventilated area or under an adequate fume hood. Do not use in unventilated spaces.

### Section X. Other Information

**Special Precautions or comments** May cause irritation. Manipulate in a well ventilated area or under an adequate fume hood. Avoid all contact with the product. Handle and open container with care. Container should be opened only by a technically qualified person.  
RTECS NO: TS8050000 (Potassium chloride).



NFPA

Prepared by MSDS Department/Département de F.S..

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*While the company believes the data set forth herein are accurate as of the date hereof, the company makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data are offered solely for your consideration, investigation and verification.*