



Chief Medical Supplies Ltd.
411 – 19 Street, S. E.
Calgary, AB., Canada.
T2E 6J7
1.866.620.6034

Safety Data Sheet Potassium Chloride

Document No. M-D6-018

Section I – Product and Company Identification

Synonym: Monopotassium chloride; Potassium monochloride

CAS No.: 7447-40-7

Molecular Weight: 74.55g/mol

Chemical Formula: KCl

Product Code: KCl-377, KCl-75, KCl-1268, KCl-1510, KCl-1675

Company Identification:

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For information, call:

1-403-207-6034

Emergency Number:

1-403-207-6034

Section II – Hazards Identification

Appearance: White solid

Physical State: Solid

Odor: Odorless

Hazards of Product:

Slightly hazardous in case of skin contact (irritant, permeator), of eye contact (irritant), of ingestion, of inhalation.

MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast. The substance may be toxic to blood, cardiovascular system. Repeated or prolonged exposure to the substance can produce target organs damage.

Potential Health Hazards: Not available

Section III – Composition/Information on Ingredients

Ingredient Name	Chemical Formula	CAS No.	% by weight
Potassium Chloride	KCl	7447-40-7	100

Section IV – First Aid Measures

Skin Contact: In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Section V – Fire Fighting Measures

Conditions of flammability: Not flammable

Means of extinction: Not flammable

Flash point and method of determination: Not flammable

Upper flammable limit: Not available

Lower flammable limit: Not available

Auto-ignition temperature: Not available

Hazardous combustion products: Not available

Explosion data - sensitivity to mechanical impact: Not available

Explosion data - sensitivity to static discharge: Not available

Section VI – Accidental Release Measures

Small Spill:

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill:

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section VII – Handling and Storage

Handling Procedures: Do not ingest. Do not breathe dust. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, acids, moisture.

Storage Requirements: Hygroscopic. Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section VIII – Exposure Controls/Personal Protection

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection

Eyewear: Safety glasses
Gloves: Protective gloves
Clothing: Lab coat
Respirator: Dust respirator

Section IX – Physical and Chemical Properties

Physical state: Solid
Odour and appearance: Odorless
Odour threshold: Not Available
Specific gravity: 1.987 (Water = 1)
Vapour pressure: Not Applicable
Vapour density: Not Available
Evaporation rate: Not Available
Boiling point: 1420 °C
Freezing point: 770 °C
pH: 1% soln/water): Not Available
Coefficient of water/oil distribution: Not Available

Section X – Stability and Reactivity

Stability: Stable
Conditions to avoid: Incompatible materials.
Incompatible materials: Reactive with oxidizing agents, acids
Conditions of reactivity: Not available
Hazardous decomposition products: Not available
Corrosivity: Non-corrosive in presence of glass.
Special Remarks on Reactivity: Hygroscopic. Incompatible with KMnO₄, H₂SO₄, BrF₃, and BrCl₃. May react violently with BrF₃.
Special Remarks on Corrosivity: Not available.
Polymerization: Will not occur

Section XI – Toxicological Information

Route of entry: Inhalation. Ingestion.

Effects of acute exposure: Slightly hazardous in case of skin contact (irritant), of eye contact (irritant) of ingestion, of inhalation.

Effects of chronic exposure: MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast. May cause damage to the following organs: heart, cardiovascular system

Special Remarks on Chronic Effects on Humans:

May affect genetic material. Passes through the placental barrier in animal.

Special Remarks on other Toxic Effects on Humans:

Acute Potential Health Effects: Skin: May cause skin irritation Eye: Dust may cause eye irritation. Inhalation: Dust may cause respiratory tract irritation. Low hazard for usual industrial handling Ingestion: May affect behavior (coma, change in motor activity, listlessness, vertigo, mental confusion, paresthesias, general weakness, flaccid paralysis), metabolism, blood (change in clotting factor, electrolytic imbalance), cardiovascular (hypotension, circulatory disturbances, cardiac arrhythmias, heart block), and respiratory, gastrointestinal (irritation of GI tract, nausea, vomiting, diarrhea, abdominal discomfort, purging), and urinary(impairment of renal function) systems. Acute potassium intoxication by mouth is rare because large single doses usually induce vomiting, and because in the absence of pre-existing kidney damage potassium is rapidly excreted. Maximal nontoxic oral dose of KCl in man varies from 0.2g to 1 g of potassium/kg/day depending upon efficiency of individual excretory mechanism; lower doses sometimes cause impairment of renal function as shown by reduced inulin, and urea clearance. Chronic Potential Health Effects: May affect blood and cardiovascular system.

Section XII – Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.

Special Remarks on the Products of Biodegradation: Not available.

Section XIII – Disposal Considerations

Waste disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations

Section XIV – Transport Information

Special shipping information: Not available

Transport of Dangerous Goods (TDG): None

Department of Transportation (DOT): None

International Maritime Dangerous Goods (IMO): None

International Civil Aviation Organization (ICAO): None

Section XV – Regulatory Information

Federal and State Regulations: TSCA 8(b) inventory: Potassium chloride

Other Regulations: EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada): Not controlled under WHMIS (Canada).

DSCL (EEC): R36- Irritating to eyes. S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S39- Wear eye/face protection.

HMIS (U.S.A.):

Health Hazard: 1

Fire Hazard: 0

Reactivity: 0

Personal Protection: E

Section XVI – Other Information

SDS creation date: Oct 15, 2012

Last revision date: Jan 11, 2016

The information above 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, express 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 event shall Chief Medical Supplies 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 Chief Medical Supplies has been advised of the possibility of such damages.

This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all of the information required by the CPR