

SAFETY DATA SHEET

Section 1: IDENTIFICATION

Product Identifier:	Potassium Chloride (Potash)
Other Means of Identification:	Muriate of Potash
Product Family:	Inorganic Salt
Recommended Use:	Cement and Stimulation Additive.
Manufacturer/Supplier:	Bri-Chem Supply Ltd. 27075 Acheson Road Acheson, AB T7X 6B1
Phone Number:	780-962-9490
Emergency Phone:	CHEMTREC 1-800-424-9300, 24/7

Section 2: HAZARD(S) IDENTIFICATION

Classification:	Not classified under any hazard class.
Label Elements:	Not applicable
Other Hazards:	Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, nose and throat.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Potassium Chloride	7447-40-7	98.1-99.8		
Sodium Chloride	7647-14-5	0.1-1		

Notes: There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

Section 4: FIRST-AID MEASURES

First-Aid Measures

Inhalation: Remove from exposure to fresh air immediately. Apply oxygen or artificial respiration if required. No known significant effects. Seek medical attention for any signs of wheezing and/or breathing difficulties. For additional advice call the emergency number on this SDS or your poison centre or medical provider.

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Skin Contact: After contact with skin, wash immediately with plenty of water. Remove contaminated clothing and footwear immediately. If irritation develops or persists, seek medical attention.

Eye Contact: May cause irritation due to mechanical action. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. If eye irritation persists, get medical advice or attention.

Ingestion: Wash out mouth with water. If victim is conscious, administer water to drink. DO NOT INDUCE VOMITING without medical advice. Get medical attention if symptoms appear.

Immediate Medical Attention and Special Treatment

Special Instructions: Treat symptomatically and supportively.

Section 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Non-flammable. Material will not burn. Use an extinguishing agent suitable for the surrounding fire.

Unsuitable Extinguishing Media: None known

Special Hazards Arising from the Product: No specific fire or explosion hazard.

Special Protective Equipment and Precautions for Fire-fighters: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Chemical protective clothing (e.g. chemical splash suit) and positive pressure SCBA may be necessary.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures: Use the personal protective equipment recommended in Section 8 of this safety data sheet.

Environmental Precautions: It is good practice to prevent releases into the environment. Do not allow into any sewer, on the ground or into any waterway.

Methods and Materials for Containment and Cleaning Up

Small Spill: Material free from contamination can be used for its original purpose. Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large Spill: Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

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Section 7: HANDLING AND STORAGE

Precautions for Safe Handling:

Use with adequate ventilation. Minimize dust generation and accumulation. Avoid prolonged or repeated contact with skin. Avoid any contact with eyes, skin and clothing. Keep container tightly closed. Avoid ingestion and inhalation. It is good practice to: avoid breathing product; avoid skin and eye contact and wash hands after handling.

Conditions for Safe Storage:

Store in a cool, dry, well-ventilated area away from incompatible materials. Keep container tightly closed. Store protected from moisture. Absorbs moisture on long-term storage under high humidity conditions. Sealable containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Potassium Chloride

CA Alberta Provincial (Canada)

Alberta TWA: 10 mg/m³ Inhalable, 3 mg/m³ respirable, for particles not otherwise regulated: 10 mg/m³ 8 hours.

CA Quebec Provincial

Quebec TWAEV: for particles not otherwise regulated: 10 mg/m³ 8 hours as total dust.

OSHA PEL (United States)

TWA: 15 mg/m³ particles not otherwise regulated, total particulates 8 hours.

OSHA = US Occupational Safety and Health Administration

PEL = Permissible Exposure Limits

TWA = Time-Weighted Average

TWAEV = Time-Weighted Average Exposure Value

Appropriate Engineering Controls:

Provide adequate natural or mechanical ventilation to keep airborne concentrations low.

Individual Protection Measures

Eye/Face Protection:

Wear chemical safety goggles and face shield when contact is possible. Contact lenses should not be worn when handling this product.

Skin Protection:

Wear protective clothing as required to prevent contact. Protective gloves are recommended. Ensure emergency shower and eyewash available.

Respiratory Protection:

Use NIOSH/MSHA-approved respiratory protection equipment.

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Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance:	Off-white. Particle size: not available
Odour:	Odourless
Odour Threshold:	Not available
pH:	7 (10% solution)
Melting Point/Freezing Point:	770°C (melting)
Initial Boiling Point/Range:	1420°C
Flash Point:	Not applicable
Evaporation Rate:	Not applicable
Upper/Lower Flammability or Explosive Limit:	Not available (upper); Not available (lower)
Vapour Pressure:	Not available
Vapour Density (Air=1):	Not available
Relative Density (Water=1):	993 - 1245
Solubility:	Very soluble (more than 50 g/100mL) in water
Partition Coefficient, n-Octanol/Water (Log Kow):	Not available
Auto-ignition Temperature:	Not applicable
Decomposition Temperature:	Not available
Other Information	
Physical State:	Solid
Molecular Formula:	KCl
Molecular Weight:	74.54

Section 10: STABILITY AND REACTIVITY

Reactivity:	Not reactive
Chemical Stability:	Stable at room temperature in closed containers under normal storage and handling conditions.
Possibility of Hazardous Reactions:	Hazardous polymerization will not occur.

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Conditions to Avoid: Absorbs moisture on long-term storage under high humidity conditions. Store in a dry place and/or closed container. May form steep piles that can collapse without warning when stored in bulk. Avoid forming steep slopes when removing product.

Incompatible Materials: A mixture of salts. May be corrosive to metals.

Hazardous Decomposition Products: Under normal conditions of storage and use, hazardous decomposition reactions should not be produced.

Section 11: TOXICOLOGICAL INFORMATION

Acute Toxicity: LD50 Oral Rat: 2600 mg/kg
Draize test (rabbit, eye): 500 mg/24 hours

Skin Corrosion/Irritation: No significant irritation expected other than possible mechanical irritation.

Serious Eye Damage/Irritation: No significant irritation expected other than possible mechanical irritation.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation: No significant irritation expected other than possible mechanical irritation.

Ingestion: No known significant effects or critical hazards.

Carcinogenicity: No evidence of risk to humans. No known significant effects or critical hazards.

No information was located for: Aspiration Hazard, Respiratory and/or Skin Sensitization, Development of Offspring, Sexual Function and Fertility, Effects on or via Lactation, Germ Cell Mutagenicity, Interactive Effects.

Section 12: ECOLOGICAL INFORMATION

Practically non-toxic to aquatic organisms. May be harmful to the environment if released in large quantities.

Ecotoxicity: Not available

Section 13: DISPOSAL CONSIDERATIONS

Disposal Method: Dispose of in accordance with federal, provincial and local government regulations. It is good practice to prevent releases into the environment.

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Section 14: TRANSPORT INFORMATION

Not regulated under Canadian TDG regulations.

Special Precautions: Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

Section 15: REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

WHMIS 1988 Classification: Not a WHMIS controlled product.

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL): All components are listed or exempted on the DSL/NDSL.

Section 16: OTHER INFORMATION

Disclaimer:

The information contained herein is based on data available to us and is believed to be true and accurate. However, no guarantee or warranty is provided, expressed or implied, by the company or its subsidiaries regarding accuracy of the information, the hazards connected with the use of the material, or the results to be obtained from the use thereof. Since the use of this product is within the exclusive control of the user, we do not assume any responsibility and expressly disclaim any liability for any use of this product. It is the user's responsibility to determine the conditions of safe use, storage, and disposal of the product. Compliance with all applicable federal, provincial, and local regulations remains the responsibility of the user.

Prepared by: Bri-Chem Supply Ltd.

Revision Date: July 30, 2024