

POTASSIUM CHLORIDE (POTASH)

SECTION 1. IDENTIFICATION

Product Identifier	POTASSIUM CHLORIDE (POTASH)
Other Means of Identification	Muriate of Potash
Product Family	Inorganic Salt
Recommended Use	Drilling Fluid Additive.
Supplier Identifier	Bri-Chem Supply Ltd., Bay 4, 5510 - 3rd Street SE, Calgary, Alberta, T2H 1J9, Bri-Chem Supply, 403-252-5904, www.brichemsupply.com
Emergency Phone No.	ChemTrec, (800) 424-9300, 24/7

SECTION 2. HAZARD 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, skin, 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.

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.

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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.

Specific 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.

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.

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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.

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 applicable (upper); Not applicable (lower)
Vapour Pressure	Not available
Vapour Density (air = 1)	Not applicable
Relative Density (water = 1)	993 - 1245
Solubility	Very soluble (more than 50 g/100 mL) 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

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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.

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.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

Prolonged or repeated exposure may dry the skin, causing irritation.

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 Methods

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

SDS Prepared By Bri-Chem Supply Ltd

Phone No. (403) 252-5904

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Disclaimer This Health and Safety information is correct to the best of our knowledge and belief at the date of its publication, but we cannot accept liability for any loss, injury or damage which may result from its use. We shall ensure, so far as is reasonably practicable, that any revision of this Data Sheet is sent to all customers to whom we have directly supplied this substance, but must point out that it is the responsibility of any intermediate supplier to ensure that such revision is passed to the ultimate user. The information given in the Data Sheet is designed only as guidance for safe handling, storage, and the use of the substance. It is not a specification nor does it guarantee any specific properties. All chemicals should be handled only by competent personnel, within a controlled environment. Should further information be required, this can be obtained through the sales office whose address is at the top of this data sheet.

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