

POTASSIUM CARBONATE

SECTION 1. IDENTIFICATION

Product Identifier POTASSIUM CARBONATE
Product Family Calcium Sequester
Recommended Use Drilling Fluid Additive.
Supplier Identifier Prairie Mud Service, 738 6th Street, Estevan, SK S4A 1A4 306-634-3411

Emergency Phone No. 306-634-3411

SECTION 2. HAZARD IDENTIFICATION

Classification

Acute toxicity (Oral) - Category 5; Acute toxicity (Dermal) - Category 5; Acute toxicity (Inhalation) - Category 4; Specific target organ toxicity (repeated exposure) - Category 2

Label Elements



Signal Word:

Warning

Hazard Statement(s):

Harmful if inhaled.

May be harmful in contact with skin.

May be harmful if swallowed.

May cause damage to organs through prolonged or repeated exposure.

Precautionary Statement(s):

Prevention:

Avoid breathing dust/fume/gas/mist/vapours/spray.

Use only outdoors or in a well-ventilated area.

Response:

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Get medical advice or attention if you feel unwell.

Disposal:

Dispose of contents and container in accordance with local, regional, national and international regulations.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers
Potassium carbonate	584-08-7	98.5-100	

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

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Move to fresh air. Apply oxygen or artificial respiration if required. Call a Poison Centre or doctor if you feel unwell.

Skin Contact

Immediately flush contaminated area with water for at least 5 minutes or until the chemical is removed. Under running water, remove contaminated clothing, shoes and leather goods (watchbands, belts). Obtain immediate medical attention.

Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Obtain immediate medical attention.

Ingestion

Wash out mouth with water. Give large amount of water to drink if patient is fully conscious. Get prompt medical attention. NEVER give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing.

Most Important Symptoms and Effects, Acute and Delayed

If on skin:

Repeated or prolonged exposure can irritate the skin.

Immediate Medical Attention and Special Treatment

Special Instructions

Treat symptomatically and supportively.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Not combustible. Use extinguishing agent suitable for surrounding fire.

Specific Hazards Arising from the Product

Does not burn.

Special Protective Equipment and Precautions for Fire-fighters

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

Ventilate area. Use appropriate safety equipment. Collect spill by sweeping up and shoveling into containers. Collect uncontaminated material for re-packaging. Collect contaminated material in an approved container for disposal. Cautiously spray residue with plenty of water. Collect wash water in an approved container for disposal. Releases should be reported to appropriate agencies.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Use with adequate ventilation. Avoid contact with skin and eyes. Avoid breathing dust. Use good personal hygiene and housekeeping. Thoroughly clean, or discard, contaminated clothing and footwear before re-use. Empty containers retain product residue and must be handled in accordance with the provisions of the MSDS.

It is good practice to: avoid breathing product; avoid skin and eye contact and wash hands after handling.

Conditions for Safe Storage

Keep in a cool, dry place, in tightly closed containers away from acids. Product is hygroscopic (absorbs water). The product should be stored well-protected against moisture.

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Appropriate Engineering Controls

Use local exhaust ventilation when excessive dust exceeds TLV. TWA (8 hr) for similar material is 1 mg/m³.

Individual Protection Measures

Eye/Face Protection

Wear chemical safety goggles. Do not wear contact lenses when handling this material.

Skin Protection

Wear protective clothing as required to prevent contact. Suggest plastic or rubber gloves. Ensure emergency shower and eyewash available.

Respiratory Protection

NIOSH/ MESA approved dust mask recommended for low level of dust. Use approved respirator with dust cartridges if dust concentration in air exceeds TLV (TWA {8 hr}for similar material is 1 mg/m³).

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	White Granules. Particle Size: Not available
Odour	Odourless
Odour Threshold	Not available
pH	12.5
Melting Point/Freezing Point	891 °C (melting); Not applicable (freezing)
Initial Boiling Point/Range	Not available
Flash Point	Not applicable
Evaporation Rate	Not applicable
Upper/Lower Flammability or Explosive Limit	Not applicable (upper); Not applicable (lower)
Vapour Pressure	Not applicable
Vapour Density (air = 1)	Not applicable
Relative Density (water = 1)	2.428
Solubility	Soluble in water; Not applicable (in other liquids)
Partition Coefficient, n-Octanol/Water (Log Kow)	Not applicable
Auto-ignition Temperature	Not applicable
Viscosity	Not applicable (kinematic)
Other Information	
Physical State	Solid
Bulk Density	Not available
Surface Tension	Not applicable
Critical Temperature	Not applicable
Electrical Conductivity	Not applicable
Vapour Pressure at 50 deg C	Not applicable
Saturated Vapour Concentration	Not applicable

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability

Normally stable. Product is hygroscopic.

Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

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Conditions to Avoid

The resulting dust may be irritating to the eyes, skin and respiratory tract. Contact with acids will release carbon dioxide gas. Avoid contact with lime to prevent the formation of potassium hydroxide.

Incompatible Materials

Reacts violently with: red, hot aluminum; fluorine gas; lithium and 2,4,6-trinitrotoluene.

Hazardous Decomposition Products

Thermal decomposition will form oxides of carbon and oxides of potassium.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity

LC50 Inhalation Rat: >4.96 mg/L

LD50 Oral Rat: 1870 mg/L

LD50 Dermal Rabbit (skin): >2000 mg/kg

Skin Corrosion/Irritation

Animal tests show mild irritation.

Repeated or prolonged exposure can irritate the skin. Initial contact may result in itching with increasing irritation if not removed.

Serious Eye Damage/Irritation

Dust and concentrated solutions may cause moderate to severe irritation.

May cause moderate to severe irritation with tearing, redness, or a stinging or burning feeling.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

Excessive levels of airborne dust may irritate the mucous membranes and upper respiratory tract.

Skin Absorption

Initial contact may cause itching. Solutions are more irritating and may cause burns if not removed promptly.

Ingestion

May cause irritation or burning of lips, mouth, tongue, throat and stomach. Severe scarring of the throat and esophagus may occur after swallowing.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

Frequent or prolonged exposure may cause dermatitis. Massive exposure from ingestion may cause ulcerations, vomiting and death from shock.

Carcinogenicity

Not listed by NTP, IARC, OSHA or ACGIH

No information was located for: Development of Offspring, Sexual Function and Fertility, Germ Cell Mutagenicity, Interactive Effects

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Not Available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Empty packages/containers contain residual hazardous materials and must be disposed of, or recycled, in accordance with local regulations. Dispose in accordance with federal, provincial and local government regulations.

SECTION 14. TRANSPORT INFORMATION

Not regulated under Canadian TDG regulations.

Special Precautions Not applicable

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Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

WHMIS 1988 Classification



Class D2B



Class E

D2B - Toxic; E - Corrosive

SECTION 16. OTHER INFORMATION

Phone No. 306-634-3411

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Disclaimer

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