

SAFETY DATA SHEET

Section 1: IDENTIFICATION

Product Name: Calcium Chloride Anhydrous
Recommended Use: Drilling Fluid Additive
Supplier: Bri-Chem Supply Ltd.
27075 Acheson Road
Acheson, AB T7X 6B1
780-962-9490
24 Hour Emergency: 1-800-535-5053 (Infotrac)

Section 2: HAZARD(S) IDENTIFICATION

Classification

This product is considered hazardous under the U.S OSHA 29 CFR 1910.1200 Hazard Communication Standard.

Eye Irritant Category 2

Label Elements

GHS Pictograms:



Signal Word: Warning

Hazard Statements: Causes serious eye irritation

Precautionary Statements

Prevention: Wash thoroughly after handling. Wear eye protection/face protection.

Response: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention

Hazards Not otherwise Classified: None

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Substance

Chemical Name: Calcium Chloride Anhydrous
Formula: CaCl₂
Molecular Weight: 110.98 g/mol
CAS No: 10043-52-4
Concentration: ≤ 100 %

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Section 4: FIRST-AID MEASURES

First-Aid Measures

- Eye Contact:** Immediately rinse with plenty of water. Remove contact lenses, if present and easy to do so. Keep eye wide open while rinsing. Continue rinsing for 15 minutes. Call a doctor/ physician if irritation persists.
- Skin Contact:** Wash off immediately with plenty of water. Remove all contaminated clothes and shoes. Wash clothing before reuse. If skin irritation persists, call a doctor/physician.
- Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
- Ingestion:** Do not induce vomiting without medical advice. Rinse mouth with water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

Most Important Symptoms/Effects, Acute and Delayed

- Symptoms:** No information available.

Section 5: FIRE-FIGHTING MEASURES

- Suitable Extinguishing Media:** Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Specific Hazards Arising from the Chemical**
- Hazardous Combustion Products:** Thermal decomposition can lead to the release of irritation or toxic gases and vapors; including and not limited to: Hydrogen chloride gas, Calcium oxide
- Protective Equipment and Precautions for Fire-Fighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

- Personal Precautions:** Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists. Use personal protection recommended in Section 8. Ensure adequate ventilation.
- Methods and Material for Containment and Cleaning Up**
- Methods for Clean-up:** Sweep or vacuum up and place in an appropriate closed container. Keep unauthorized personnel away. Avoid generating dust.
- Environmental Precautions:** Prevent entry into waterways or sewers

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Section 7: HANDLING AND STORAGE

Precautions for Safe Handling:	Avoid contact with eyes, skin and clothing. Do not breathe vapors/spray/mist/fume. Wear eye/face protection. Avoid dust formation. Use personal protection recommended in Section 8. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product. Clean equipment and work area regularly.
Conditions for Safe Storage, Including any Incompatibilities:	Store in a cool/low-temperature, well-ventilated, dry place. Keep containers closed and labeled when not in use.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines:	This product does not contain any hazardous materials with occupational exposure limits established by the regional specific regulatory bodies.
Appropriate Engineering Controls:	Ensure adequate ventilation, especially in confined areas. Consider the potential hazards of this material, applicable exposure limits, job activities and other substances in the workplace when designing controls and selecting personal protective equipment.
Personal Protective Equipment	
Eye/Face Protection:	Wear safety glasses with side-shields
Skin Protection:	Choose the appropriate protective clothing and gloves based on the tasks being performed to avoid exposure to skin. Wear protective gloves. Wear long sleeved protective clothing.
Respiratory Protection:	Not required under normal circumstances. If exposure limits are exceeded or if irritation or other symptoms are experienced use a NIOSH/MSHA approved respirator.
Hygiene Measures:	Handle in accordance with good industrial hygiene and safety practices. Do not eat, drink or smoke when using this product.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White crystalline powder
Physical State	Solid
Odor:	No odor
Odor Threshold:	No information available
pH:	Not applicable
Melting Point:	772 °C / 1421 °F

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Boiling Point / Boiling Range:	Not applicable
Flash Point:	Not applicable
Evaporation Rate:	Not applicable
Flammability:	No information available

Flammability or Explosive Limits

Upper	No information available
Lower	No information available

Vapor Pressure:	0.01 hPa @ 20 °C
Vapor Density:	No information available
Relative Density:	2.15 g/cm ³
Solubility in Water:	No information available
Partition Coefficient:	No information available
Auto-Ignition Temperature:	No information available
Decomposition Temperature:	No information available
Viscosity:	No information available

Section 10: STABILITY AND REACTIVITY

Reactivity:	None known under normal conditions
Chemical Stability:	Stable under ordinary conditions of use and storage
Possibility of Hazardous Reactions:	None under normal processing
Conditions to Avoid:	Exposure to moisture may affect product quality
Incompatible Materials:	Strong acids, Borane/boron oxides, Zinc, Calcium oxide, Methyl vinyl ether, Bromine trifluoride.
Hazardous Decomposition Products:	Hazardous combustion can lead to the release of irritating gases and vapors.

Section 11: TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Skin Contact:	May cause skin irritation
Eye Contact:	Causes serious eye irritation
Inhalation:	May cause irritation of respiratory tract
Ingestion:	May be harmful if swallowed

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Symptoms Related to the Physical Chemical and Toxicological Characteristics: No information available

Delayed and Immediate Effects and also Chronic Effects from Short and Long-term Exposure

Skin Damage/Irritation: Not classified
Eye Damage/Irritation: Causes serious eye irritation
Sensitization: Not classified
Mutagenic Effects: Not classified
Carcinogenicity: Not classified
Reproductive Toxicity: Not classified
STOT – Single Exposure: Not classified
STOT – Repeated Exposure: Not classified
Aspiration Hazard: Not classified

Acute Toxicity

Component Information

Component	CAS-No	LD50 Oral	LD50 Dermal	LC50 Inhalation
Calcium Chloride Anhydrous	10043-52-4	2,301 mg/kg	-	-

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: Should not be released to environment

Component	Freshwater Fish	Freshwater Algae	Water Flea
Calcium Chloride Anhydrous 10043-52-4	LC50: 10,650 mg/L – 96h <i>Lepomis Macrochirus</i>	-	EC50: 2,400 mg/L – 48h <i>Daphnia Magna</i>

Persistence and Degradability: No information available

Bioaccumulative Potential: No information available

Mobility in Soil: No information available

Other Adverse Effects: No information available

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Section 13: DISPOSAL CONSIDERATIONS

Waste Treatment Methods: Processing, use, or contamination of this product may occur during product use. Accordingly, it is the responsibility of the user to determine the proper disposal methodologies. Consult the appropriate state, regional or local regulations to ensure complete and accurate classification. Dispose of contaminated packaging in accordance with local regulations.

Section 14: TRANSPORT INFORMATION

DOT: Not regulated
IATA: Not regulated
IMDG: Not regulated

Section 15: REGULATORY INFORMATION

International Inventories

TCSA: Listed

DSL: Listed

US Federal Regulations

TSCA Section 12(b) Export Notification Not regulated

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA): Not applicable

SARA 311/312 Hazard Categorization:

Acute Health Hazard: Yes

Chronic Health Hazard: No

Fire Hazard: No

Pressure: No

Reactivity: No

CERCLA/SARA 302 & 304

Section 302 & 304 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA): Not applicable

CWA (Clean Water Act): Not applicable

California Proposition 65: This product does not contain any proposition 65 chemicals

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Section 16: OTHER INFORMATION

NFPA Ratings:

Health: 2

Flammability: 0

Reactivity: 0

Disclaimer:

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Prepared by: Bri-Chem Supply Ltd.

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