

CALCIUM CHLORIDE

SECTION 1. IDENTIFICATION

Product Identifier CALCIUM CHLORIDE
Product Family Inorganic Salt
Recommended Use Drilling Fluid Additive.
Supplier 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. HAZARDS IDENTIFICATION

GHS Classification

Skin corrosion/irritation - Category 2; Serious eye damage/eye irritation - Category 2B

GHS Label Elements



Signal Word:

Warning

Wash hands thoroughly after handling.

Wear protective gloves.

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.

If skin irritation occurs: Get medical advice/attention.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers
Calcium chloride	10043-52-4	77-94	

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Remove to fresh air. If not breathing, give artificial respiration and seek medical attention.

Skin Contact

Wash with soap and water. If adverse symptoms develop, seek medical attention.

Eye Contact

Immediately flush the contaminated eye(s) with lukewarm, gently flowing water while holding the eyelid(s) open for 15 minutes. If adverse symptoms develop, seek medical attention.

Ingestion

If victim is conscious and alert, give large amounts of milk or water to drink. NEVER give anything by mouth if victim

Product Identifier: CALCIUM CHLORIDE

Date of Preparation: January 15, 2016

Page 1 of 04

is rapidly losing consciousness, or is unconscious or convulsing. Get medical attention, if adverse symptoms develop.

Immediate Medical Attention and Special Treatment

Special Instructions

If burn is present, treat as any thermal burn after decontamination.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing media appropriate for packaging and surrounding fire *.

Specific Hazards Arising from the Chemical

Does not burn or support combustion.

Special Protective Equipment and Precautions for Fire-fighters

Firefighters must wear appropriate breathing apparatus and clothing. Combustion produces toxic fumes.

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

Use appropriate safety equipment. Small spill: sweep up and put into approved DOT containers for disposal or re-use. Large spill: DO NOT allow to enter waterways; sweep or shovel into approved DOT containers for disposal or re-use. Flush residue with large amounts of water.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Heat developed during diluting or dissolving is very hot. Use cool water when diluting or dissolving (temperatures less than 27°C).

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 place. Keep container tightly closed and away from incompatible materials. Prolonged storage may cause product to cake and become wet from atmospheric moisture.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Nuisance Dust: 10 mg/m³.

Appropriate Engineering Controls

Provide local and/or general exhaust ventilation to control airborne levels below exposure guidelines.

Individual Protection Measures

Eye/Face Protection

Wear chemical safety goggles.

Skin Protection

Wear chemical protective clothing e.g. gloves, aprons and boots.

Respiratory Protection

In absence of proper ventilation, recommend NIOSH-approved dust respirator.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Product Identifier: CALCIUM CHLORIDE

Date of Preparation: January 15, 2016

Appearance	White powder.
Odour	Odourless
pH	7.0 - 9.0
Melting Point/Freezing Point	772 °C (melting)
Initial Boiling Point/Range	815 °C
Flash Point	Not available
Evaporation Rate	Not available
Vapour Pressure	0.005 mm Hg at 20 °C
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	1.85 - 2.20
Solubility	Very soluble (more than 50 g/100 mL) in water; Not available (in other liquids)
Decomposition Temperature	Not available
Other Information	
Physical State	Solid
Molecular Formula	CaCl ₂
Molecular Weight	Not available
Bulk Density	Not available
Critical Temperature	Not applicable
Vapour Pressure at 50 deg C	Not available
Saturated Vapour Concentration	Not available

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

Incompatible Materials

Corrosive to some metals. Avoid contact with metals such as brass, mild steel, aluminum or ferrous metals. Flammable hydrogen may be generated from contact with metals such as zinc. Avoid contact with sulfuric acid. Heat is generated when mixed with water. Splattering or boiling can occur.

Hazardous Decomposition Products

Does not decompose under normal conditions.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity

LD50 Oral Rat: 1000 mg/kg

Skin Corrosion/Irritation

Prolonged exposure may cause skin irritation or burns, especially if skin is moist. When dissolving, the heat produced may cause more intense effects as well as thermal burns.

Serious Eye Damage/Irritation

May cause severe irritation with corneal injury, which may be slow to heal.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

Dust may cause irritation to upper respiratory tract.

Ingestion

Large ingestions may cause gastrointestinal irritation or ulcerations.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

Product Identifier: CALCIUM CHLORIDE

Date of Preparation: January 15, 2016

No known effects of chronic exposure.

No information was located for: Respiratory and/or Skin Sensitization, Carcinogenicity, Development of Offspring, Sexual Function and Fertility, Germ Cell Mutagenicity, Interactive Effects

SECTION 12. ECOLOGICAL INFORMATION

No ecotoxicity or environmental fate data available. It is good practice to prevent releases into the environment.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of in accordance with federal, provincial and local government regulations. Containers should NOT be re-used. Containers should be disposed of in accordance with government regulations.

SECTION 14. TRANSPORT INFORMATION

Not regulated under Canadian TDG Regulations.

Special Precautions for User 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 Classification



Class D2B

D2B - Toxic (Skin irritant; Eye irritant)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by the Controlled Products Regulations.

SECTION 16. OTHER INFORMATION

NFPA Rating Health - 1 Flammability - 0 Instability - 0

SDS Prepared By Bri-Chem Supply Ltd

Phone No. (403) 252-5904

Date of Preparation January 15, 2016

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.

Product Identifier: CALCIUM CHLORIDE

Date of Preparation: January 15, 2016

Page 04 of 04