

SECTION 1: IDENTIFICATION

PRODUCT IDENTIFIER:	CALCIUM CHLORIDE
OTHER MEANS OF IDENTIFICATION:	Not applicable
RECOMMENDED USE:	Oilwell cement additive
RESTRICTIONS ON USE:	None
SUPPLIER IDENTIFIER:	Di-Corp 8750-53 Ave Edmonton, AB T6E 5G2 780-440-4923
EMERGENCY PHONE NUMBER:	780-468-4064 (24 hr)

SECTION 2: HAZARD IDENTIFICATION

CLASSIFICATION:	Acute toxicity (oral) – Category 4 Skin irritation – Category 2 Eye irritation – Category 2A
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LABEL SYMBOL:



SIGNAL WORD:

WARNING

CLASSIFICATION INFORMATION:

May be harmful if swallowed.
Causes skin irritation.
Causes serious eye irritation.

PRECAUTIONARY STATEMENTS:

Wash hand, face and exposed skin thoroughly after handling.
Do not eat, drink or smoke when handling this product.
Wear eye protection/face protection.
Wear protective gloves.
IF SWALLOWED: Call a doctor if you feel unwell. Rinse mouth.
IF ON SKIN: Wash with plenty of water.
If skin irritation occurs: Get medical attention.
Take off contaminated clothing and wash it before reuse.
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 attention.
Dispose of material and containers in accordance with local, provincial and federal guidelines.

OTHER HAZARDS:

Heat is generated when mixed with water or aqueous acid solutions.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	CONCENTRATION (%)
Calcium chloride	10043-52-4	94 – 97 (w/w)

SECTION 4: FIRST AID MEASURES

SKIN CONTACT:	If irritation occurs, before breaks and when shift ends wash with soap and water. If irritation develops and persists seek medical attention.
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EYE CONTACT:	Immediately flush with gently flowing warm water for 15 – 20 minutes or until irritation ceases. Obtain medical attention when flushing is complete.
INGESTION:	Do not induce vomiting. Rinse mouth with water. Give 1-2 glasses of water to drink. If spontaneous vomiting occurs, keep head below hips to ensure vomitus is not aspirated, then rinse mouth and readminister water. Obtain medical attention. Never give anything by mouth to an unconscious or convulsing victim.
INHALATION:	Move to area free from dust. If breathing difficulties continue, obtain medical attention. Inhalation may aggravate existing respiratory illness.
MOST IMPORTANT SYMPTOMS / EFFECTS:	Inhalation may cause upper respiratory tract irritation. Prolonged or repeated skin contact may cause irritation or burns especially if skin is moist or if material is confined to skin.
IMMEDIATE MEDICAL ATTENTION / SPECIAL TREATMENT:	Contact with solid or concentrated solutions will cause eye irritation. Product may react with water in the eye to produce heat therefore prompt first aid is required to prevent potential eye damage.

SECTION 5: FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:	Use media suitable for surrounding fire and packaging.
UNSUITABLE EXTINGUISHING MEDIA:	None.
SPECIFIC FIRE HAZARDS:	None.
HAZARDOUS COMBUSTION PRODUCTS:	Hydrogen chloride is a hazardous combustion product at temperatures in excess of 1600°C.
SPECIAL PROTECTIVE EQUIPMENT & PRECAUTIONS:	Self-contained breathing apparatus required for fire-fighting personnel.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Wear suitable protective equipment.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP

Vacuum up, if possible, to avoid generating airborne dust. Collect uncontaminated material for repackaging. Collect contaminated material in approved containers for disposal.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Wash thoroughly after handling. Avoid contact with eyes, skin, or clothing.

CONDITIONS FOR SAFE STORAGE & INCOMPATIBILITIES

Store in a cool, very dry place; material is hygroscopic. Keep container tightly closed when not in use. Heat developed during diluting or dissolving is very high. Use cool water when diluting or dissolving. Empty packaging contains residual hazardous material and should be stored and handled as if full.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS:	Not established.
ENGINEERING CONTROLS:	Maintain adequate engineering controls and/or ventilation to keep hazardous ingredient(s) below statutory limits or guidelines.
RESPIRATORY PROTECTION:	NIOSH/MESA approved dust mask or respirator if high dust levels expected.
PROTECTIVE GLOVES:	Rubber gloves recommended.
EYE PROTECTION:	Chemical goggles recommended.

OTHER PROTECTIVE EQUIPMENT (SPECIFY): Ensure eyewash station and emergency shower are available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: White crystals
 ODOUR: Odourless
 ODOUR THRESHOLD: Not applicable
 pH: 8 – 9 (34% solution)
 MELTING POINT / FREEZING POINT: 772°C
 BOILING POINT / RANGE: 1670°C
 FLASH POINT: Not applicable
 EVAPORATION RATE: Not applicable
 FLAMMABILITY: Not applicable
 FLAMMABILITY / EXPLOSIVE LIMITS: Not applicable
 VAPOUR PRESSURE: Not applicable
 VAPOUR DENSITY: Not applicable
 RELATIVE DENSITY: 2.16
 SOLUBILITY: Soluble in water (42.5g/100mL): Highly soluble in acids.
 PARTION COEFFICIENT: Not available
 AUTO-IGNITION TEMPERATURE: Not applicable
 DECOMPOSITION TEMPERATURE: Not applicable
 VISCOSITY: Not applicable

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: No known dangerous reactions under normal conditions of use.
 CHEMICAL STABILITY: Stable under recommended storage conditions.
 POSSIBILITY OF HAZARDOUS REACTIONS: None known.
 CONDITIONS TO AVOID: Exposure to moist air or water addition to hot water, incompatible materials. Heat is generated when mixed with water. Splattering or boiling may occur.
 INCOMPATIBLE MATERIALS: May react violently with processed lime to produce heat. Corrosive to some metals. Corrosive when wet. Flammable hydrogen may be generated from contact with metals such as zinc or sodium. Avoid contact with sulfuric acid.
 HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen.

SECTION 11: TOXICOLOGICAL INFORMATION

COMPONENT	LD50 ORAL	LD50 DERMAL	LC50 INHALATION
Calcium chloride	500 – 1000 mg/kg (rat)	>5000 mg/kg (rabbit)	>160 mg/m ³ /4 hr (rat)

SKIN CONTACT: Single, short exposures are expected to cause no to slight irritation. Prolonged or repeated contact with the dust may irritate the skin or cause burns especially if skin is moist or if material is confined to skin.
 EYE CONTACT: Solid and concentrated liquid will cause moderate to severe eye irritation with corneal injury that may be slow to heal. When dissolving, the heat produced may cause more intense effects as well as thermal burns.
 INGESTION: Oral toxicity considered low. Swallowing solids may cause gastrointestinal irritation or ulceration.
 INHALATION: May cause irritation of the upper respiratory tract.
 CARCINOGENICITY: Not listed by IARC, ACGIH, NTP or OSHA.

TERATOGENICITY:	No information available.
REPRODUCTIVE TOXICITY:	No information available.
MUTAGENICITY:	No information available.
CHRONIC TOXICITY:	No information available.
TARGET ORGAN EFFECTS:	No information available.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY	LC50 = 10650 mg/L/96 hr (bluegill). EC50 = 2400 mg/L/48 hr (water flea).
PERSISTENCE AND DEGRADABILITY:	Not applicable to inorganic substances. Not expected to persist as it is readily soluble in water.
BIOACCUMULATIVE POTENTIAL:	Not expected to bioaccumulate.
MOBILITY IN SOIL:	Dissociates readily into ions and will easily travel through soil.
OTHER ADVERSE EFFECTS:	No adverse environmental effects are expected.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with federal, provincial and local regulations. It is the responsibility of the end-user to determine if material meets the criteria of hazardous waste at the time of disposal. May be disposed of as an inert solid in a sanitary landfill in some locations: Check with local operator. Empty packages should be taken for local recycling, recovery or waste disposal: Check with local waste operator.

SECTION 14: TRANSPORTATION INFORMATION

UN NUMBER:	Not applicable
PROPER SHIPPING NAME:	None
CLASS:	Not applicable
PACKING GROUP:	Not applicable
IMDG HAZARDS:	Not applicable
BULK TRANSPORT:	Not applicable
SPECIAL PRECAUTIONS:	Not applicable

SECTION 15: REGULATORY INFORMATION

DSL:	All ingredients are on the DSL.
WHMIS 1988 CLASSIFICATION:	D2B
TSCA:	All components are listed on the inventory or are exempt.

SECTION 16: OTHER INFORMATION

REVISION DATE:	March 4, 2025
REPLACES:	February 8, 2022

The information contained herein is given in good faith, but no warranty, expressed or implied, is made.