

### **Section 01 Identification**

Product Identifier Calcium Chloride (All grades)

Calcium Chloride High Test Fines Calcium Chloride 77%, Flake

Calcium Chloride 77%, Food Grade, Flake

Calcium Chloride 83%, Flake Calcium Chloride High Test, Beads

Other Means of Identification Calcium dichloride

Product Use and Restrictions on Use

Industrial uses, drill mud additive

Initial Supplier Identifier ClearTech Industries Inc

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Prepared By ClearTech Industries Inc. technical writer

**24-Hour Emergency Phone** 306.664.2522

### Section 02 Hazard Identification

#### **Physical Hazards**

This product does not qualify for any physical hazard class under WHMIS 2015

#### **Health Hazards**

Acute toxicity - oral Category 4

Serious eye damage / eye

irritation

Category 2

### Signal Word

Warning

### **Hazard Statements**

H302 Harmful if swallowed

H319 Causes serious eye irritation.

### **Pictograms**

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#### **Precautionary Statements**

#### Prevention

P264 Wash affected body parts thoroughly after handling.P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves, protective clothing, eye protection, face protection.

### Response

P301 P312 P330 IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor if you feel unwell.

P305 P351 P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present P337 P313 and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

#### **Disposal**

P501 Dispose of contents / container in accordance with all federal, provincial and / or local regulations including the Canadian Environmental Protection Act.

### **Hazards Not Otherwise Classified**

Not available

### Supplemental Information

Not available

## Section 03 Composition / Information on Ingredients

#### **Hazardous Ingredients:**

Chemical name Common name(s) CAS number Concentration (w/w%)

Calcium dichloride Calcium chloride 10043-52-4 75-100%

### Section 04 First-Aid Measures

#### Description of necessary first-aid measures

**Inhalation** Get medical advice / attention if you feel unwell or are concerned.

**Ingestion** Call a POISON CENTER or doctor if you feel unwell. Rinse mouth.

**Skin contact** Rinse skin with lukewarm, gently flowing water / shower for 5 minutes or until product is removed.

If skin irritation occurs or if you feel unwell: Get medical advice / attention.

Eye contact Remove source of exposure or move person to fresh air. Rinse eyes cautiously with lukewarm,

gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses,

if present and easy to do. Continue rinsing for 15 to 20 minutes. Take care not to rinse

contaminated water into the unaffected eye or onto the face. If eye irritation persists: Get medical

advice / attention.

### Most important symptoms and effects, both acute and delayed

**Inhalation** May cause respiratory irritation.

**Ingestion** Harmful if swallowed. Causes nausea and vommiting.

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Skin contact Not available

Eve contact Causes serious eye irritation.

Further information For further information see Section 11 Toxicological Information.

### Section 05 Fire Fighting Measures

Suitable extinguishing media Extinguish fire using extinguishing agents suitable for the surrounding fire.

Unsuitable extinguishing

media

Not available

Specific hazards arising

from the chemical

Contact with water will generate heat.

for fire-fighters

Special protective equipment Wear NIOSH-approved self-contained breathing apparatus and protective clothing.

### Section 06 Accidental Release Measures

Personal Precautions / Protective Equipment / **Emergency Procedures**  Wear appropriate personal protective equipment. Ventilate area. Only enter area with PPE.

Stop or reduce leak if safe to do so.

**Environmental Precautions** 

Prevent material from entering sewers or confined spaces. Notify local health and wildlife

officials. Notify operators of nearby water intakes.

Methods and Materials for Containment and Cleaning Up

Dry sweeping is not recommended. Pre-damping the material or use of a vacuum is preferred. Shovel into clean, dry, labelled containers and cover. Flush area with water.

# Section 07 Handling and Storage

Precautions for Safe

Handling

Use proper equipment for lifting and transporting all containers. Use sensible industrial hygiene and housekeeping practices. Wash thoroughly after handling. Avoid all situations that could lead to harmful exposure. Avoid generating dust. Prevent the release of dust into the workplace air. Inspect containers for damage or leaks before handling. If the original label is damaged or missing replace with a workplace label.

**Conditions for Safe Storage** 

Store in a cool, dry, well-ventilated area, out of direct sunlight, away from heat sources and incompatible materials. Always store in original labeled container. Keep containers tightly closed when not in use and when empty. Empty containers may contain hazardous residues. Protect label and keep it visible.

Incompatibilities Water, zinc, bromide trifluoride, 2-furan percarboxylic acid

## Section 08 Exposure Controls and Personal Protection

### **Exposure limits**

There are no known exposure limits for this product.

#### **Engineering controls**

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Ventilation Requirements Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and

control of process conditions must be provided in accordance with all fire codes and regulatory requirements. Supply sufficient replacement air to make up for air removed by

exhaust systems.

Other An eye wash bottle or eye wash station must be available, tested, and be in close

proximity to the product being handled in accordance with provincial regulations.

Protective equipment

Eye and face protection Where there is potential eye or face exposure, tightly fitting chemical goggles are

recommended.

**Hand and body protection** Where handling this product it is recommended that skin contact is avoided.

**Respiratory protection** Where there is potential for exposure beyond the stated exposure limits or is irritating to

workers, a respirator with cartridges rated for the product in question are recommended. Consult the respirator / cartridge manufacturer for advice when starting or maintaining a

respirator program.

Thermal hazards Not available

# **Section 09 Physical and Chemical Properties**

### **Appearance**

Physical state Flakes, powder, or beads

**Colour** White to off-white

Odour Not available

Odour threshold Not available

**Property** 

**pH** Not applicable

Melting point / freezing point ~772 °C

Initial boiling point and

boiling range

~1670 °C

Flash point Not applicable

**Evaporation rate** Not available

Flammability Not flammable

Upper flammable limit Not available

Lower flammable limit Not available

Vapour pressure Not available

Vapour density Not available

Relative density 2.2 g/cm<sup>3</sup>

**Solubility** Soluble in water

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Partition coefficient: n-

octanol/water

Not available

Auto-ignition temperature Not available **Decomposition temperature** Not available Viscosity Not applicable

Specific gravity Not applicable

**Formula** CaCl<sub>2</sub>

Molecular weight 110.98 g/mol

### Section 10 Stability and Reactivity

Reactivity Reacts with water to generate heat. Hygroscopic.

Stability This product is stable if stored according to the recommendations in Section 07.

Possibility of hazardous

reactions

Not available

Conditions to avoid Contact with incompatible materials. Exposure to moisture and air.

Incompatible materials Water, zinc, bromide trifluoride, 2-furan percarboxylic acid

Hazardous decomposition

products

Not available

## Section 11 Toxicological Information

#### Acute Toxicity (LD50 values)

Component	Route	Species	Value	Exposure time
Calcium chloride	Oral	Mouse	1940-2045 mg/kg	

Oral Rat 3798-4179 mg/kg 500-1000 mg/kg Oral Rabbit Dermal Rabbit >5000 mg/kg

### **Toxic Health Effect Summary**

Chemical No known effects **Characteristics** 

Skin Irritation/corrosiveness studies conducted under OECD test guidelines indicate that calcium chloride

is not/slightly irritating to skin

Ingestion Harmful if swallowed.

Inhalation May cause respiratory irritation.

Irritation/corrosiveness studies conducted under OECD test guidelines indicate that calcium chloride Eye contact

is severely irritating to eyes of rabbits.

Delayed and This product and its components at their listed concentration have no known carcinogenic, mutagenic,

Chronic reproductive or sensitization effects.

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## **Section 12 Ecological Information**

### **Ecotoxicity**

Component **Type Species** Value **Exposure Time** 

Selenastrum Calcium chloride EC50 2900 mg/L 72 hours capricornutum

EC50 1062 mg/L Daphnia magna 48 hours LC50 Pimephales promelas 4630 mg/L 96 hours

Biodegradability This product contains inorganic salts that are already present in the environment.

Bioaccumulation This product is not expected to bioaccumulate.

Mobility This product is water soluble, and will not adsorb to soil and may contaminate ground

water.

Not available Other adverse effects

### **Section 13 Disposal Considerations**

Waste From Residues /

**Unused Products** 

Dispose in accordance with all federal, provincial, and local regulations including the

Canadian Environmental Protection Act.

Contaminated Packaging Do not remove label, follow label warnings even after the container is empty. Empty

containers should be recycled or disposed of at an approved waste handling facility.

# **Section 14 Transport Information**

**UN** number Not available

Not available UN proper shipping name

Transport hazard class(es) Not available

Not available Packing group

**Excepted quantities** Not available

**Environmental hazards** 

Special precautions Not available

Transport in bulk Not available

Additional information Secure containers (full or empty) with suitable hold down devises during shipment and

ensure all caps, valves, or closures are secured in the closed position.

TDG PRODUCT CLASSIFICATION: This product has been classified on the preparation date specified at section 16 of this SDS, for transportation in accordance with the requirements of part 2 of the Transportation of Dangerous Goods Regulations. If applicable, testing and published test data regarding the classification of this product are listed in the references at section 16 of this SDS.

## Section 15 Regulatory Information

NOTE: THE PRODUCT LISTED ON THIS SAFETY DATA SHEET HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN HAZARDOUS PRODUCTS REGULATIONS. THIS SAFETY DATA SHEET CONTAINS ALL INFORMATION REQUIRED BY THOSE REGULATIONS.

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### Section 16 Other Information

Date of latest revision: March 29, 2019

**Note:** The responsibility to provide a safe workplace remains with the buyer / user. The buyer / user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the buyer / user to comply with all applicable laws and regulations regarding handling, using, reselling and shipping this product.

### Attention: Receiver of the chemical goods / SDS coordinator

As part of our commitment to the RDC Responsible Distribution® initiative, ClearTech Industries Inc. and its associated companies require, as a condition of sale, that you forward the attached Safety Data Sheet(s) to all affected employees, customers, and end-users. ClearTech will send any available supplementary handling, health, and safety information to you at your request.

If you have any questions or concerns please call our customer service center.

#### References:

- 1) CHEMINFO
- 2) TOXNET
- 3) eChemPortal
- 4) ECHA
- 5) Transportation of Dangerous Goods Canada
- 6) HSDB
- 7) PAN

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