

# SAFETY DATA SHEET

Date: 20.12.2020 Expired Date: 12.20.2022

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

- Product identifiers  
Product name: Calcium Chloride  
Other name: Calcium Chloride 77%, Flake  
Calcium Chloride 77%, Food Grade, Flake  
Recommended Use: Fertilizer  
Restrictions on Use: None Known
- Details of the supplier of the safety data sheet



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## 2. HAZARDS IDENTIFICATION

### Physical Hazards

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

### Health Hazards

Acute toxicity - oral      Category 2

Serious eye damage / eye irritation      Category 4

### Signal Word

Warning

### Hazard Statements

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

### Precautionary Statements

Prevention

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

P270 Do not eat, drink or smoke when using this product.

P280 Wear eye 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

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

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Composition:

Name	CAS No.	%By Weight
Calcium Chloride	10043-52-4	75-100

### 4. FIRST AID MEASURES

#### ➤ Description of first aid measures

Inhalation

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

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.

Ingestion

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

First-aid Comments

Treat symptomatically.

Most important symptoms and effects, both acute and delayed

Inhalation May cause respiratory irritation

Ingestion May cause respiratory irritation

Skin contact Harmful if swallowed. Causes nausea and vomiting.

Eye contact Further information Causes serious eye irritation.

For further information see Section 11 Toxicological Information.

## **5. 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.

Special protective equipment for fire-fighters Wear NIOSH-approved self-contained breathing apparatus and chemical-protective clothing.

## **6. ACCIDENTAL RELEASE MEASURES**

Personal Precautions, Protective Equipment, and Emergency Procedures

Wear appropriate personal protective equipment (See Section 08 Exposure Controls and Personal Protection). Stay upwind, ventilate area.

Environmental Precautions

Prevent material from entering waterways, 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, labeled containers and cover. Flush area with water.

## **7. 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. Inspect containers for damage or leaks before handling. If the original label is

damaged or missing replace with a workplace label. Have suitable emergency equipment for fires, spills and leaks readily available.

#### 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

### **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### Exposure limits

There are no known exposure limits for this product.

#### Engineering controls

##### Ventilation Requirements

Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and control of process conditions should 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 should be available, tested, and be in close proximity to the product being handled in accordance with provincial regulations.

#### Protective equipment

The following are recommendations only. It is the responsibility of the employer / user to conduct a hazard assessment of the process in which this product being used and determine the proper engineering controls and PPE for their process. Additional regulatory and safety information should be sought from local authorities and, if needed, a professional industrial hygienist.

#### 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

In case of insufficient ventilation wear suitable respiratory equipment.

Thermal hazards Not available

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

Basic Physical and Chemical Properties

Appearance White. Flakes

Odour Odourless

Odour Threshold: Not applicable

PH Value Not applicable

Melting Point/Freezing Point: 772 °C (melting); Not applicable (freezing)

Initial Boiling Point/Range: 1670 °C

Evaporation Rate: Not applicable

Flash Point: Not available

Flammability (solid, gas): 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): 2.2/cm<sup>3</sup>

Solubility: soluble in water;

Viscosity: Not applicable (kinematic); Not applicable (dynamic)

Bulk Density: Not available

## **10. STABILITY AND REACTIVITY**

Reactivity

Reacts with water to generate heat. Reacts with water to generate heat. Hygroscopic

Chemical Stability

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

Possibility of Hazardous Reactions

Not available

Conditions to Avoid

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

## 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	
	Oral	Rabbit	500-1000 mg/kg	
	Dermal	Rabbit	>5000 mg/kg	

### Toxic Health Effect Summary

Chemical characteristics No known effects

Skin Irritation/corrosiveness studies conducted under OECD test guidelines indicate that calcium chloride is not/slightly irritating to skin

Ingestion Harmful if swallowed. Causes nausea and vomiting.

Inhalation May cause respiratory irritation.

Eye contact Irritation/corrosiveness studies conducted under OECD test guidelines indicate that calcium chloride is severely irritating to eyes of rabbits.

Sensitization This product and its components at their listed concentration have no known sensitizing effects.

Mutagenicity This product and its components at their listed concentration have no known mutagenic effects.

Carcinogenicity This product and its components at their listed concentration have no known carcinogenic effects

Reproductive toxicity This product and its components at their listed concentration have no known reproductive effects.

Specific organ toxicity This product and its components at their listed concentration have no known carcinogenic effects.

Aspiration hazard This product and its components at their listed concentration have no known reproductive effects.

Synergistic materials This product and its components at their listed concentration have no known effects on specific organs.

## 12. ECOLOGICAL INFORMATION

Ecotoxicity

Component	Type	Species	Value	Exposure time
Calcium chloride	EC50	Selenastrum capricornutum	2900 mg/L	72H
	EC50	Daphnia magna	1062 mg/L	48H
	LC50	Pimephales promelas	4630 mg/L	96H

#### **Biodegradability**

The domestic substance list categorizes all of the components of this product as persistent.

#### **Bioaccumulation**

The domestic substance list categorizes all components of this product as non-bioaccumulative.

#### **Mobility**

This product is water soluble, is not predicted to adsorb to soil and contaminate ground water.

#### **Other adverse effects**

Not available

### **13. DISPOSAL CONSIDERATIONS**

Dispose in accordance with all federal, provincial, and local regulations including the Canadian Environmental Protection Act. 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.

### **14. TRANSPORT INFORMATION**

UN number Not available

UN proper shipping name and description Not available

Transport hazard class(es) Packing group Not available

Excepted quantities Not available

Environmental hazards Not listed as a marine pollutant under Canadian TDG Regulations, schedule III.

Special precautions No special provisions

Transport in bulk ERAP index: not available MARPOL 73/78 and IBC Code:

Additional information

Secure containers (full or empty) during shipment and ensure all caps, valves, or closures are secured in the closed position.

## **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.

All components of this product appear on the domestic substance list.

## **16. OTHER INFORMATION**

GLOCALFERT INC. gives no warranty, express or implied, as to the accuracy or completeness of this information. It is the user's responsibility to determine the suitability of this information for the adoption of necessary safety precautions and/or compliance with federal, state, and local laws and regulations. This document is intended only as a guide to the appropriate precautionary handling of the material by a qualified and experienced individuals using this product. The person receiving the information must exercise his independent judgment in determining its appropriateness for a particular purpose. GLOCALFERT INC. makes no representations of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly, GLOCALFERT INC. will not be responsible for loss resulting from the use or reliance upon this information.