

## Safety Data Sheet

Conforms to OSHA CFR 29 1910.1200 and aligns to the United Nations Globally Harmonized System  
Conforms to The United Nations Regulation Globally Harmonized System

Date of Revision: 03/17/2019

Revision: 02

### Section 1 - Chemical Product and Company Identification

**1.1 Product Name: Calcium Chloride Solid**

**Other Identification:** Calcium dichloride, Calcium chloride pellets, Calcium chloride powder, Anhydrous calcium chloride, CaCl<sub>2</sub>

**1.2 Distributor:** Vitro Chemicals, Fibers & Mining, LLC, 13481 Resource Drive, Laredo, TX 78045 (800)258-1545

**1.3 Product Use:** Swimming pool additive, drilling mud additive, Turkey processing, Vegetable canning additive, snow and ice melter, dust control.

**1.4 Product Restriction:** None

**1.5 Emergency Telephone:** Hazmat Service 800-373-7542 Contract Number 1186

### Section 2 - Hazards Identification

## GHS HAZARD

**2.1 Hazard Classes**

Eye irritation  
Acute toxicity, oral

**Hazard Categories**

Category 2A  
Category 4

**2.2 Signal Word:** Warning**2.3 Pictograms:****2.4 Hazard Statements****PHYSICAL HAZARDS:**

None

**HEALTH HAZARDS:**

H302: Harmful if swallowed  
H319: Causes serious eye irritation

**ENVIRONMENTAL HAZARDS:**

None

## Calcium Chloride Solid

### PRECAUTIONARY STATEMENTS:

P264: Wash hands thoroughly after handling  
P270: Do not drink or smoke when using this product  
P280: Wear eye protection

### RESPONSE STATEMENTS:

P301 +312: IF SWALLOWED: USA Immediately call the National POISON CENTER at 800-222-1222.  
P305+P351+: IF IN EYES rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P330: Rinse mouth  
P337+P313: If eye irritation persists, get medical attention

### STORAGE STATEMENTS:

None

### DISPOSAL STATEMENTS:

P501: Dispose of content and/ container in accordance with local, regional, national and/or international regulations

**Hazards not otherwise classified (HNOC) or not covered by GHS:** Avoid dust formation.

**Other hazards:** Exothermic reaction with water dissolves in water releasing heat, May causes mild skin irritation

## Section 3 - Composition / Information on Ingredients

### 3.1

Chemical Names	CAS #.	Concentration%	Classification
Calcium chloride	10043-52-4	94 - 100%	Acute Tox. 4 H302 Eye Irrit.2 H319

## Section 4 - First Aid Measures

**4.1 Eye:** Contact with the eyes can cause serious irritation. Symptoms may include discomfort or pain and redness. Severe overexposure can result in swelling of the conjunctiva along with tissue damage.

**Eyes:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

**4.2 Skin:** Prolonged and repeated contact can cause defatting and drying of the skin and can lead to irritation and/or dermatitis.

**Skin:** Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid immediately. Wash clothing before reuse.

**4.3 Ingestion:** Ingestion can cause inebriation, headache, gastrointestinal pain, nausea, and vomiting.

**Ingestion:** Do NOT induce vomiting. Get medical aid immediately.

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**4.4 Inhalation:** Prolonged breathing of high dust concentrations can produce headache, dizziness, nausea, and impaired vision. Excessive overexposure can cause central nervous system depression, loss of consciousness, liver damage and death resulting from respiratory failure.

**Inhalation:** Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult and **IF TRAINED**, give oxygen. Get medical aid. Do NOT use mouth-to-mouth resuscitation without protection.

**4.5 After first aid, get appropriate paramedic, or community medical support.**

**Note to Physicians:** The severity of outcome following exposure may be more related to the time between exposure and treatment, rather than the amount of the exposure. Therefore, there is a need for rapid treatment of any exposure.

### Section 5 - Fire-Fighting Measures

**5.1 Flammable Properties:** Not flammable

**5.2 Suitable Extinguishing Media:** Carbon dioxide, dry chemical powder or appropriate foam. Use water to keep non-leaking, fire-exposed containers cool.

**5.3 Special hazards arising from the substance or mixture:** Hydrogen chloride gas, Calcium oxide

**5.4 Precautions for Firefighters:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water spray to keep fire-exposed containers cool. Substance is noncombustible. Contact with metals may evolve flammable hydrogen gas.

### Section 6 - Accidental Release Measures

**6.1 Personal Precautions:** Evacuate the area immediately. Isolate the hazard area. Keep out unnecessary and unprotected personnel. Increase ventilation to area or move container to a well-ventilated and secure area. Do not touch damaged containers or spilled product unless wearing appropriate protective equipment. Before entry, especially into confined areas, check atmosphere with an appropriate monitor.

**6.2 Methods for Containment and Clean-up**

Contain the discharged material. If sweeping of a contaminated area is necessary use a dust suppressant agent.

**6.3 Other Information:** Report spills to local health, safety and environmental authorities, as required.

### Section 7 - Handling and Storage

**7.1 Handling:** Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Do not breathe dust minimize dust generation and accumulation. Do not get in eyes, on skin, or on clothing.

**7.2 Storage:** Store in a cool, dry, well-ventilated area, out of direct sunlight. Keep quantities stored as small as possible. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel.

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### Section 8 - Exposure Controls / Personal Protection

#### 8.1

Chemical Names	ACGIH- TLV	OSHA - PEL
Calcium chloride	5 mg/m3 TWA	5 mg/m3 TWA

**8.2 ACGIH® = American Conference of Governmental Industrial Hygienists. TLV® = Threshold Limit Value.**

**OSHA = US Occupational Safety and Health Administration. PEL = Permissible Exposure Limits.**

**NOTE: TWA Means** "TWA is the employee's average airborne exposure in any 8-hour work shift of a 40-hour work week which shall not be exceeded."

**8.3 Ventilation:** Provide general or local exhaust ventilation systems to maintain airborne concentrations below TLV/PELs Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

#### 8.5 Personal protective equipment

**8.5.1 Respiratory protection respirator** Use a type N100 as a backup to engineering controls.

##### 8.5.2 Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique to avoid skin contact with this product. Dispose of contaminated gloves after use. Select gloves tested to the **ANSI/ISEA 105-2011**

Full contact: Nitrile rubber

Splash contact: Nitrile rubber

##### 8.5.3 Eye protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US).

##### 8.5.4 Skin and body protection

Chemical splash protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### 8.9 Protective Clothing Pictograms



Splash  
Goggles



Gloves



Dust  
Respirator

## Calcium Chloride Solid

### Section 9 - Physical and Chemical Properties

#### 9.1

Physical State: Solid granules  
Appearance: White  
Odor: None  
Vapor Pressure: Not Available  
Vapor Density (Air=1): Not Data Available  
Specific Gravity (H<sub>2</sub>O=1.): 1.3  
Relative Density: Not Available  
Odor Threshold: Not Available  
Flammability (solid, gas): Not applicable.  
Evaporation rate: Not Available  
Partition coefficient octanol/water: Not Available

Water Solubility: Soluble  
Melting point/freezing point: Not Available  
Flash Point: Not Data Available  
Boiling Point / Range: 3038°F  
(1670°C)  
Lower Explosive Limits (vol % in air): N/A  
Upper Explosive Limits (vol % in air):N/A  
Viscosity: Not Available  
Auto ignition Temperature: Not Available  
Decomposition temperature: Not Available  
pH: 9

### Section 10 - Stability and Reactivity

**10.1 Chemical Stability:** Stable under ordinary conditions of use and storage.

**10.2 Conditions to Avoid:** Exposure to moisture may affect product quality.

**10.3 Incompatible Materials:** Strong acids, Borane/boron oxides, Zinc, Calcium oxide, Methyl vinyl ether, Calcium chloride is attacked by bromine trifluoride

**10.4 Hazardous Decomposition:** When heated to decomposition, calcium chloride emits toxic fumes of hydrogen chloride.

**10.5 Hazardous Polymerization:** Violent polymerization occurs when mixed with Methyl Vinyl Ether.

### Section 11- Toxicological Information

#### 11.1 Toxicity Data

Chemical Name	LD50 oral rat	LC50 Dermal Rat
Calcium chloride	1000 mg/kg	2630mg/kg

**11.2 Route of Entry:** Ingestion, Skin and/or Eye Contact

**11.3 Aspiration Hazard:** European Chemical Agency Data Base shows that this product is not fatal if swallowed and enters airways.

**11.4 Acute Toxicity:** Harmful if swallowed. OECD Guideline Test results found in the European Chemical Agency Data Base shows that components of this product to be Harmful Oral Toxicity.

**11.5 Mutagenicity:** European Chemical Agency Data Base show that this product will not cause genetic defects.

**11.6 Skin Corrosion/Irritation:** OECD Guideline Test results found in the European Chemical Agency Data Base shows that no components of this product to cause skin irritation, however, mild skin ittitation can occur.

**11.7 Serious Eye Damage/Irritation:** OECD Guideline Test results found in the European Chemical Agency Data Base shows that components of this product to cause serious eye irritation.

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**11.8 Reproductive toxicity:** European Chemical Agency Data Base shows that this product will not cause damage to fertility or the unborn child.

**11.9 Skin Sensitisation** OECD Guideline Test results found in the European Chemical Agency Data Base show components of this product to cause skin sensitively.

**11.10 Respiratory Sensitisation** OECD Guideline Test results found in the European Chemical Agency Data Base show no components of this product to cause respiratory sensitively.

**11.11 Specific Target Organ Toxicity (Single Exposure):** European Chemical Agency Data Base shows that this product will not cause single target organ toxicity.

**11.12 Target Organ Toxicity (Repeated Exposure):** European Chemical Agency Data Base shows that this product will not cause repeated target organ toxicity.

**11.13 Signs and Symptoms of Exposure:** Dust may produce irritation of eyes, mouth and respiratory tract. Inhalation of the dust may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

**11.14 Carcinogenicity:** European Chemical Agency Data Base shows that this product will not cause cancer.

Chemical Name	IARC	ACGIH	NTP	OSHA
Calcium chloride	Not Listing	Not Listing	Not listed	Not Listed

## Section 12 - Ecological Information

### 12.1

Calcium chloride	LC50 759 mg/l	Fish	96 hours
Calcium chloride	EC50 590mg/l	Daphnia	48 hours

**12.2 Toxicity:** OECD Guideline Test results found in the European Chemical Agency Data Base show that this product is not harmful and will not cause long-term toxicity to aquatic life.

**Mobility in soil:** No Data available.

**Persistence/degradability:** No Data available.

**Bioaccumulation:** No Data available.

**PBT and vPvB assessment:** No Data available.

## Section 13 - Disposal Considerations

**13.1 Disposal: DO NOT REUSE EMPTY CONTAINER!** Container with residues should be considered to be hazardous wastes. Contact a licensed contractor for detailed recommendations. Follow applicable federal, state, and local regulations.

## Calcium Chloride Solid

### Section 14 - Transport Information

#### 14.1

Regulatory Information	UN #	Proper Shipping Name	Hazard Class	PG	Label	Additional Information
US DOT Classification		Not Regulated				

### Section 15 - Regulatory Information

#### 15.1 US Regulations:

**TSCA:** All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30.

**US TRI Reporting 313:** None

**CERCLA Hazardous Substances and corresponding RQs:** None

**SARA Community Right-to-Know Program:** None

**Clean Water Act:** None

**Clean Air Act:** None

**OSHA:** All ingredients are listed in 1910.1200

#### State Regulations

**California prop. 65:** None

Chemicals on the following State Right to Know Lists:

**Massachusetts:** All components of this product are on the Massachusetts Inventory or are exempt from Inventory requirements.

**New Jersey:** All components of this product are on the New Jersey inventory or are exempt from Inventory requirements.

**Pennsylvania:** All components of this product are on the Pennsylvania Inventory or are exempt from Inventory requirements.

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## Calcium Chloride Solid

### Section 16 - Other Information

**16.1 Disclaimer:** The information presented in this Safety Data Sheet is based on data believed to be accurate as of the date this Safety Data Sheet was prepared. HOWEVER NO responsibility is assumed for any damage or injury resulting from abnormal use or from any failure to adhere to recommended practices. The information provided above is furnished on the condition that the person receiving them shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of their use.

**16.2 References:** CHEMpendium data base of Canadian Centre for Occupational Health and Safety (CCOHS), JJ Keller online, European Chemical Agency Data Base Chinese Data Base Classification Labeling of Hazardous Chemicals, Australia Data Base for GHS Chemical Classification and MSDS and SDS of this chemical.

**16.3 SDS Preparation Date:** 05/22/2015

**SDS Revision Date:** 02/26/2016 Section 1 Distributor Name and address

**SDS Revision Date:** 03/17/2019 Sections 2,3,4,11,14,15,16

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