


SAFETY DATA SHEET

CALCIUM CHLORIDE SOLID (CaCl₂).

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

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 ₂
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 Contact Number 1186

SECTION 2 – HAZARDS IDENTIFICATIONS	
GHS HAZARD	
2.1 Hazard Classes	Hazard Categories
Skin irritation	Category 3
Eye irritation	Category 2A
Acute toxicity, oral	Category 4
2.2 Signal Word	
Warning	
2.3 Pictograms	
	
2.2 Hazard Statements	
Physical Hazards	None
Health Hazards	H302: Harmful if swallowed H316: Causes mild skin irritation H319: Causes serious eye irritation

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Environmental Hazards	None
Precautionary Statements	P264: Wash skin thoroughly after handling P270: Do not drink or smoke when using this product P280: Wear face and eye protection
Response Statements	P301 +312: IF SWALLOWED: <u>USA</u> Immediately call the National POISON CENTER at 800-222-1222 . <u>OUTSIDE USA</u> Immediately call a poison center or doctor P332+P313: IF ON SKIN, if skin irritation occurs get medical attention P305+P351+: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P330: Rinse mouth
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: May irritate mucous membranes. Unknown acute toxicity: None	

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS			
3.1			
Chemical Names	CAS #.	Concentration %	Other Identifiers
Calcium chloride	10043-52-4	94 -100%	Calcium dichloride

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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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 leading to central nervous system depression. Aspiration of liquid into the lungs must be avoided as even small quantities in the lungs can produce chemical pneumonia, pulmonary edema, and even death

- **INGESTION:** Do NOT induce vomiting. Get medical aid immediately

4.4 INHALATION

Prolonged breathing of high dust concentrations can produce headaches, 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 ingestion may be more related to the time between ingestion and treatment, rather than the amount ingested. Therefore, there is a need for rapid treatment of any ingestion exposure

SECTION 5 – FIRE-FIGHTING MEASURES

5.1 Flammable Properties

Not flammable

5.2 Suitable Extinguishing Media

Carbon dioxide, dry chemical powder, or an appropriate foam. Use water to keep nonleaking, 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 the area or move the container to a well-ventilated and secure area. Do not touch damaged containers or spilled products unless wearing appropriate protective equipment. Before entry, especially into confined areas, check the 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 the 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. The storage area should be clearly identified, clear of obstruction, and accessible only to trained, and authorized personnel

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1

Chemical Names	ACGIH-TLV	OSHA-PEL
Calcium chloride	5 mg/m ³ TWA	5 mg/m ³ 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 workweek 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 engineer controls

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8.5.2 Hand protection Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal techniques 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

Protective Apron

Boots

Dust Respirator

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 (H₂O=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
Autoignition 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 are 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 Names	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 Database shows that this product is not fatal if swallowed and enters airways

11.4 Acute Toxicity

Harmful if swallowed. OECD Guideline 401 Tests results found in the European Chemical Agency Database show that components of this product are Harmful Oral Toxicity

11.5 Mutagenicity

European Chemical Agency Database shows that this product will not cause genetic defects

11.6 Skin Corrosion/Irritation

OECD Guideline 404 Tests results found in the European Chemical Agency Database show that components of this product may cause mild skin irritation

11.7 Serious Eye Damage/Irritation

OECD Guideline 405 Tests results found in the European Chemical Agency Database show that components of this product may cause serious eye irritation

11.8 Specific Target Organ Toxicity (Single Exposure)

European Chemical Agency Database shows that this product will not cause single target organ toxicity

11.9 Reproductive Toxicity

European Chemical Agency Database shows that this product will not cause damage to fertility or the unborn child

11.10 Target Organ Toxicity (Repeated Exposure)

European Chemical Agency Database shows that this product will not cause repeated target organ toxicity

11.12 Carcinogenicity

European Chemical Agency Database shows that this product will not cause cancer

Chemical Names	IARC	ACGIH	NTP	OSHA
Calcium chloride	Not Listed	Not Listed	Not listed	Not listed

11.13 Key to Abbreviations

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IARC = International Agency for Research on Cancer
ACGIH= American Conference of Governmental Industrial Hygienists
NTP = National Toxicology Program

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 204 Test results found in the European Chemical Agency Database show that this product is not harmful and will not cause long-term toxicity to fish

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!

Containers with residues should be considered hazardous waste. Contact a licensed contractor for detailed recommendations. Follow applicable federal, state, and local regulations

SECTION 14 – TRANSPORT INFORMATION

14.1 Transporte Terrestre

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

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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

15.2 Canada Regulations

All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed

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 Database of Canadian Centre for Occupational Health and Safety (CCOHS), JJ Keller on Line, European Chemical Agency Database, Chinese Database Classification Labeling of Hazardous Chemicals, Australia Database for GHS Chemical Classification and MSDS and SDS of this chemical

16.3

SDS Preparation Date: 05/22/2015

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