



**SAFETY DATA SHEET**  
According to 29 CFR 1910.1200

**CLORASOL CALCIUM**

Date of issue: July 01, 2009 Revision date: September 01, 2023 Version: 4

**SECTION 1.- IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1 Product identifier**

Product form Substance.  
Substance name Calcium Chloride.  
CAS No. 10043-52-4  
Formula  $\text{CaCl}_2$   
Synonyms Not available.

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Use of the substance/mixture Fertilizers

**1.3 Details of the supplier of the safety data sheet**

Pima Chemicals & Fertilizers, LLC  
1370 Nogales, Az.  
Tel. 011 52 (662) 182-0559  
rgutierrez@qpima.com

Química Pima, S.A. de C.V.  
Del Cobre 20, Parque Industrial Hermosillo.  
Hermosillo, Sonora, México. C.P. 83297  
Tel. 011 (662) 251-0010 ventas@qpima.com

**1.4 Emergency telephone number**

Emergency number CHEMTREC (24HR Emergency Telephone), call: 1-800-424-9300

**SECTION 2.- HAZARD IDENTIFICATION**

**2.1. GHS-US classification**

Eye Irrit. 2A H319

**2.2. Label elements**

**GHS-US labelling**

**Hazard pictograms (GHS-US)**



Warning

**Signal word (GHS-US):**

**Hazard statement (GHS-US):** H319 Causes serious eye irritation.

**Precautionary statements (GHS-US):** P264 Wash hands thoroughly after handling.  
P270 Do not eat, drink, or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P302 + P352 IF ON SKIN: Wash with plenty of water.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present, and easy to do. Continue rinsing.  
P337+P313 If eye irritation persists: Get medical advice/attention.



# SAFETY DATA SHEET

According to 29 CFR 1910.1200

**CLORASOL CALCIUM**

P403 Store in a well-ventilated place. Store away from incompatible.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3. Other hazards

None.

2.4 Unknown acute toxicity (GHS-US)

Not applicable.

## SECTION 3.- COMPOSICION / INFORMATION OF INGREDIENTS

### 3.1 Substance

Substance type Mono-constituent.

Name	Product identifier	%	GHS-US classification
Calcium Chloride	(CAS No.) 10043-52-4	> 94.00	Eye irrit. 2A, H319

### 3.2 Mixture

Not applicable.

## SECTION 4.- FIRST AID MEASURE

### 4.1. Description of first aid measure

**First-aid measures general**

Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.

**First-aid measures after eye contact**

Rinse cautiously with water for at least 15 minutes, raising and lowering eyelids occasionally. Remove contact lenses, if present, and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**First-aid measures after skin contact**

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**First-aid measures after inhalation**

Remove the victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular, or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt, or waistband.

**First-aid measures after ingestion**

Wash out mouth with water. Remove dentures if any. Remove the victim to fresh air and keep at rest in a position comfortable for breathing. If the material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt, or waistband.

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

**Symptoms/injuries after inhalation** No known significant effects or critical hazards.

**Symptoms/injuries after skin contact** No known significant effects or critical hazards.

**Symptoms/injuries after eye contact** Cause serious eye irritation.

**Symptoms/injuries after ingestion** Irritating to mouth, throat, and stomach.



# SAFETY DATA SHEET

According to 29 CFR 1910.1200

## CLORASOL CALCIUM

**Chronic symptoms**

No known significant effects or critical hazards.

### 4.3. Indications of any immediate medical attention and special treatment needed

Treat symptomatically. Contact a poison treatment specialist immediately if large quantities have been ingested or inhaled.

## SECTION 5.- FIREFIGHTING MEASURES

### 5.1. Extinguishing media

**Suitable extinguishing media** Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media** None known.

### 5.2. Special hazard arising from the substance or mixture

**Fire hazard** No specific fire hazard.

**Explosion hazard** No specific explosion hazard.

**Hazard thermal decomposition products** Decomposition products may include the following materials: halogenated compounds, and metaloxide/oxides.

### 5.3. Advice for firefighters

**Protective equipment** Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

**Emergency procedures** Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

## SECTION 6.- ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment, and emergency procedures

#### 6.1.1. For non-emergency personnel

**Protective equipment** Safety glasses.

**Emergency procedures** No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear an appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

#### 6.1.2. For emergency responders

**Protective equipment** If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Emergency procedures** Do not breathe fumes or vapors from fire decomposition. If possible, stop flow of product. Contain and collect any solid. Ventilate area.

### 6.2. Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil, or air).

### 6.3. Methods and material for containment and cleaning up.

**Small spill** Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.



## SAFETY DATA SHEET

According to 29 CFR 1910.1200

# CLORASOL CALCIUM

### Large spill

Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements, or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place it in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### 6.4 Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7.- HANDLING AND STORAGE

### 7.1. Precautions for safe handling

#### Protective measures

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin, and clothing. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse the container.

#### Advice on general occupational hygiene

Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored, and processed. Workers should wash their hands and face before eating, drinking, and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Storage conditions

Store in accordance with local regulations. Store in the original container protected from direct sunlight in a dry, cool, and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep the container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

#### Incompatible products

See Section 10.

#### Incompatible materials

See Section 10.

### 7.3 Specific end use(s)

No additional information available.

## SECTION 8.- EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Calcium chloride 10043-52-4	Not available.	Not available.	Not available.

### 8.2. Exposure controls

#### Hygiene measures

Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking, and using the lavatory, and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing it. Ensure that eyewash stations and safety showers are close to the workstation location. Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

#### Hand protection



## SAFETY DATA SHEET

According to 29 CFR 1910.1200

# CLORASOL CALCIUM

<b>Eye protection</b>	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases, or dust. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
<b>Respiratory protection</b>	Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product, and the safe working limits of the selected respirator.
<b>Other information</b>	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

### SECTION 9.- PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

<b>Physical state:</b>	Solid.	<b>Appearance:</b>	Crystalline/white solid. Powder. Grains
<b>Odor:</b>	Odorless.	<b>Color:</b>	White.
<b>Molecular mass</b>			110.98 g/mol
<b>Odor threshold</b>			No data available.
<b>pH</b>			No data available.
<b>pH solution</b>			No data available.
<b>Relative evaporation rate (butyl acetate=1)</b>			No data available.
<b>Melting point</b>			772°C(1421.6°F)
<b>Freezing point</b>			No data available.
<b>Boiling point</b>			1935°C (3515°F)
<b>Flash point</b>			No data available.
<b>Self-ignition temperature</b>			No data available.
<b>Decomposition temperature</b>			No data available.
<b>Flammability (solid, gas)</b>			No data available.
<b>Vapor pressure</b>			No data available.
<b>Relative vapor density at 20°C</b>			2.512 <span style="float: right;">lb/ft<sup>3</sup>@25°C/77°F</span>
<b>Relative density</b>			2.16
<b>Specific volume</b>			0.3981 <span style="float: right;">lb/ft<sup>3</sup></span>
<b>Solubility</b>			Water: 745 g/l
<b>Log Pow</b>			No data available.
<b>Log Kow</b>			No data available.
<b>Viscosity, kinematic</b>			No data available.
<b>Viscosity, dynamic</b>			No data available.
<b>Explosive properties</b>			No data available.
<b>Oxidizing properties</b>			No data available.



**SAFETY DATA SHEET**  
According to 29 CFR 1910.1200

<b>CLORASOL CALCIUM</b>
-------------------------

**Explosive limits** No data available.

**9.2 Other information**

No additional information available.

**SECTION 10.- STABILITY AND REACTIVITY**

- |  |   |
|--|---|
| <b>10.1 Reactivity</b>                         | No specific test data related to reactivity available for this product or its ingredients.                                  |
| <b>10.2 Chemical stability</b>                 | Stable under recommended storage conditions.  |
| <b>10.3 Possibility of hazardous reactions</b> | Under normal conditions of storage and use, hazardous reactions will not occur.   |
| <b>10.4 Conditions to avoid</b>                | Direct sunlight. Extremely high or low temperatures.  |
| <b>10.5 Incompatible materials</b>             | Incompatible with zinc, strong acids, methyl vinyl ether, bromine trifluoride, boron oxide, and calcium oxide. Hygroscopic. |
| <b>10.6 Hazardous decomposition products</b>   | Hydrogen chloride.  |

**SECTION 11.-TOXICOLOGICAL INFORMATION**

**11. 1. Information on toxicological effects**

Acute toxicity Not classified.

Name	LD <sub>50</sub> oral	LD <sub>50</sub> dermal	LC <sub>50</sub> inhalation
Calcium chloride	1 kg/kg (rat)	-	-

- |   |   |
|---|---|
| Skin corrosion/irritation                           | No known significant effects or critical hazards.                 |
| Serious eye damage/irritation                       | Causes serious eye irritation.                                    |
| Respiratory or skin sensitization                   | Not available.  |
| Germ cell mutagenicity                              | No known significant effects or critical hazards.                 |
| Carcinogenicity                                     | No known significant effects or critical hazards.                 |
| Reproductive toxicity                               | No known significant effects or critical hazards.                 |
| Specific target toxicity (single exposure)          | Not available.  |
| Specific target toxicity (repeat exposure)          | Not available.  |
| Aspiration hazard                                   | Not available.  |
| Potential adverse human health effects and symptoms | Based on available data; the classification criteria are not met. |

**SECTION 12. ECOLOGICAL INFORMATION**

**12.1 Toxicity**

**Calcium Chloride (10043-52-4)**

Algae - Navicula seminulum	Acute EC <sub>50</sub> 3,130,000 µg/l Fresh water - 96 hours
Daphnia - Daphnia magna	Acute EC <sub>50</sub> 52,000 µg/l Fresh water - 48 hours
Crustaceans - Americamysis bahia	Acute LC <sub>50</sub> 270 mg/l Marine water - 48 hours
Fish - Pimephales promela	Acute LC <sub>50</sub> 2110 mg/l Fresh water - 96 hours

**12.2 Persistence and degradability**

**Calcium Chloride (10043-52-4)**

Persistence and degradability	Not available.
-------------------------------	----------------



**SAFETY DATA SHEET**  
According to 29 CFR 1910.1200

**CLORASOL CALCIUM**

**12.3 Bioaccumulative potential**

<b>Calcium Chloride (10043-52-4)</b>	
Bioaccumulative potential	Not available.

**12.4 Mobility in soil**

No additional information available.

**12.5 Other adverse effects**

**Other information**                      No known significant effects or critical hazards.

**SECTION 13.- DISPOSAL CONSIDERATIONS**

**13.1. Waste treatment methods**

Waste disposal recommendations	<p>The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions, and any by-products should at all times comply with environmental protection and waste disposal legislation requirements and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of safely. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material, runoff, and contact with soil, waterways, drains, and sewers.</p>
Ecology-waste materials	<p>Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. Care should be taken when handling empty containers that have not been cleaned or rinsed.</p>

**SECTION 14.- TRANSPORT INFORMATION**

14.1. UN number	Not regulated.
14.2. UN proper shipping name	Not regulated.
<b>14.3. Additional information</b>	
Other information	Not regulated.
Overland transport	Not regulated.
Transport by sea	Not regulated.
Air transport	Not regulated.

**SECTION 15.- REGULATORY INFORMATION**

**15.1 US Federal regulations**

<b>Calcium Chloride (10043-52-4)</b>
Not listed on the United States TSCA (Toxic Substances Control Act) inventory

**15.2 International regulations**

**CANADA**

<b>Calcium Chloride (10043-52-4)</b>
Not listed on the Canadian DSL (Domestic Substances List) inventory.



**SAFETY DATA SHEET**  
According to 29 CFR 1910.1200

**CLORASOL CALCIUM**

WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects
----------------------	---

**EU-Regulations**

No additional information available.

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Eye Irrit. 2A H319

**Classification according to Directive 67/548/EEC or 1999/45/EC**

Xi; R36

**15.2.2. National regulations**

**Calcium Chloride (10043-52-4)**

Not listed on the Canadian Ingredient Disclosure List.

**15.3 US State regulations**

No additional information available.

**SECTION 16.- OTHER INFORMATION**

<b>NFPA</b>	NFPA health hazard	2	NFPA fire hazard	0	NFPA instability hazard	0	NFPA Special hazard	-
<b>HMIS III</b>	Health	2	Flammability	0	Physical	0	Personal Protection	E

**E** Safety glasses, gloves, and dust respirator.



**Other information:** None.

**Made for:** Quimica Pima, S.A. de C.V. Del Cobre No. 20 Parque Industrial. Hermosillo, Sonora, México. 83297.

**Date of issue:** July 01, 2009

**Revision date:** September 01, 2023

**Revision notes:** July 27,16. Version 3. Is updated according to 29 CFR 1910.1200.

September 01, 23. Version 4. Syntax and spelling improvements and corrections were made.

*IMPORTANT NOTE: Information in this SDS is from available published sources and is believed to be accurate, but is not exhaustive and will be used only as a guide, which is based on current knowledge of the chemical substance or mixture and apply to the appropriate product for safety precautions. No warranty, express or implied, is made and Pima Chemicals & Fertilizers, LLC and Quimica Pima, S.A. de C.V. assumes no liability resulting from the use of this SDS. The user must determine the suitability of this information for his application.*

End of Safety Data Sheet