



# Safety Data Sheet

SDS no. PID204

## CALCIUM CHLORIDE (All Grades)

Revision date 27/Oct/2023

Supersedes Date: 01/Jun/2023

Version 10

### 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

**Product name** CALCIUM CHLORIDE (All Grades)  
**Product code** PID204  
**UFI:** PY10-Y0JM-W00D-81EP

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

**Recommended Use** Commercial chemical

**Uses advised against** Consumer use

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

**Supplier**  
Schlumberger Oilfield UK LTD  
Minerva, Manor Royal London Road  
Crawley  
RH10 9BU  
United Kingdom

+44 1293 556655

SDS@slb.com

#### 1.4 Emergency Telephone Number

**Emergency telephone** (24 Hour) Australia +61 2801 44558, Asia Pacific +65 3158 1074, China +86 10 5100 3039, Europe +44 (0) 1235 239 670, Middle East and Africa +44 (0) 1235 239 671, New Zealand +64 9929 1483, USA 001 281 561 1600

#### National Poison Center Numbers

<b>Denmark</b>	Poison Control Hotline (DK): +45 82 12 12 12
<b>Hungary</b>	+36 80 201 199
<b>Netherlands</b>	NVIC: +31 (0)88 755 8000 : Only for the purpose of informing medical personnel in case of acute intoxications
<b>Norway</b>	Poison information centre: +47 22 59 13 00

### 2. Hazards Identification

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008

##### Health hazards

Serious eye damage/eye irritation	Category 2
-----------------------------------	------------



**Environmental hazards** Not classified

**Physical Hazards** Not classified

## **2.2 Label elements**



### **Signal word**

WARNING

### **Hazard Statements**

H319 - Causes serious eye irritation

### **Precautionary Statements**

P264 - Wash face, hands and any exposed skin thoroughly after handling

P280 - Wear protective gloves, protective clothing, eye protection

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

### **Contains**

Calcium chloride

## **2.3 Other hazards**

Not classified as PBT/vPvB by current EU criteria

## **3. Composition/information on Ingredients**

### **3.1 Substances**

Chemical Name	EC No	CAS No	Weight-%	Component information
Calcium chloride	233-140-8	10043-52-4	60-100	Eye Irrit. 2 (H319)

### **3.2 Mixtures**

Not applicable

## **4. First Aid Measures**



#### **4.1 First aid measures**

<b>Inhalation</b>	If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.
<b>Ingestion</b>	Rinse mouth. Drink 1 or 2 glasses of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation persists.
<b>Eye Contact</b>	Promptly wash eyes with lots of water while lifting eye lids. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if any discomfort continues.

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

<b>General advice</b>	The severity of the symptoms described will vary dependant of the concentration and the length of exposure. If adverse symptoms develop, the casualty should be transferred to hospital as soon as possible.
-----------------------	--

#### **Symptoms**

<b>Inhalation</b>	Please see Section 11. Toxicological Information for further information.
<b>Ingestion</b>	Please see Section 11. Toxicological Information for further information.
<b>Skin contact</b>	Please see Section 11. Toxicological Information for further information.
<b>Eye contact</b>	Please see Section 11. Toxicological Information for further information.

#### **4.3 Indication of any immediate medical attention and special treatment needed**

<b>Notes to physician</b>	Treat symptomatically.
---------------------------	------------------------

### **5. Fire-Fighting Measures**

#### **5.1 Extinguishing media**

##### **Suitable extinguishing media**

Use extinguishing media appropriate for surrounding material.

##### **Extinguishing media which must not be used for safety reasons**

None known.

#### **5.2. Special hazards arising from the substance or mixture**

##### **Unusual fire and explosion hazards**

None known.

##### **Hazardous combustion products**

Fire or high temperatures create: Chlorine, May release hydrogen gas (explosive) on contact with metals.



### **5.3 Advice for firefighters**

#### **Special protective equipment for fire-fighters**

As in any fire, wear self-contained breathing apparatus and full protective gear.

#### **Special Fire-Fighting Procedures**

Containers close to fire should be removed immediately or cooled with water.

## **6. Accidental Release Measures**

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

Use personal protective equipment. See also section 8.

### **6.2 Environmental precautions**

The product should not be allowed to enter drains, water courses or the soil.

#### **Environmental exposure controls**

Avoid release to the environment. Local authorities should be advised if significant spillages cannot be contained.

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

#### **Methods for containment**

Prevent further leakage or spillage if safe to do so. Cover powder spill with plastic sheet or tarp to minimize spreading.

#### **Methods for cleaning up**

Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water.

### **6.4 Reference to other sections**

See section 13 for more information.

## **7. Handling and Storage**

### **7.1 Precautions for safe handling**

#### **Handling**

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin and eyes. Avoid dust formation.

#### **Hygiene Measures**

Use good work and personal hygiene practices to avoid exposure. When using do not smoke, eat or drink. Wash hands and face before breaks and immediately after handling the product. Remove contaminated clothing.

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

<b>Technical measures/precautions</b>	Ensure adequate ventilation. Keep airborne concentrations below exposure limits.
<b>Storage precautions</b>	Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Avoid contact with: Metals Strong oxidizing agents Strong acids
<b>Storage class</b>	Chemical storage.
<b>Packaging materials</b>	Use specially constructed containers only.



### 7.3 Specific end uses

See Section 1.2.

## 8. Exposure Controls/Personal Protection

### 8.1 Control parameters

#### Exposure limits

NUI = Nuisance dust, TWA 4mg/m<sup>3</sup> Respirable Dust, 10mg/m<sup>3</sup> Total Dust.

#### Component Information

Chemical Name	EU OEL	Austria	Denmark
Calcium chloride	Not determined	Not determined	Not determined
Chemical Name	France	Germany	Hungary
Calcium chloride	Not determined	Not determined	Not determined
Chemical Name	Italy	Netherlands	Norway
Calcium chloride	Not determined	Not determined	Not determined
Chemical Name	Poland	Portugal	Romania
Calcium chloride	Not determined	Not determined	Not determined
Chemical Name	Spain	Switzerland	UK
Calcium chloride	Not determined	Not determined	Not determined

#### Notes

No biological limit allocated

#### Europe - REACH

##### Derived No Effect Level (DNEL)

#### Short term exposure local effects

##### Calcium chloride

Inhalation 10 mg/m<sup>3</sup>

#### Long term exposure local effects

##### Calcium chloride

Inhalation 5 mg/m<sup>3</sup>

### 8.2 Exposure controls

All chemical Personal Protective Equipment (PPE) should be selected based on an assessment of both the chemical hazard present and the risk of exposure to those hazards. The PPE recommendations below are based on an assessment of the chemical hazards associated with this product. Where this product is used in a mixture with other products or fluids, additional hazards may be created and as such further assessment of risk may be required. The risk of exposure and need of respiratory protection will vary from workplace to workplace and should be assessed by the user in each situation.

#### Engineering Controls

Ensure adequate ventilation. Provide appropriate exhaust ventilation at places where dust is formed.

#### Personal protective equipment

##### Eye protection

Use eye protection according to EN 166, designed to protect against powders and dusts. Tightly fitting safety goggles. Safety glasses with side-shields.

##### Hand protection

Wear gloves according to EN 374 to protect against skin effects from powders  
Use protective gloves made of: Neoprene Nitrile Rubber  
Break through time >480 minutes  
Glove thickness 0.5 mm  
Frequent change is advisable

##### Respiratory protection

No personal respiratory protective equipment normally required, In case of insufficient ventilation wear suitable respiratory equipment, Half mask with a particle filter P2 (European Norm EN 143 = former DIN 3181), At work in confined or poorly ventilated spaces,

**Skin and body protection**

respiratory protection with air supply must be used.

Wear suitable protective clothing, Eye wash and emergency shower must be available at the work place.

**Hygiene Measures**

Wash hands before eating, drinking or smoking, Remove and wash contaminated clothing before re-use.

**8.2.3 Environmental exposure controls****Environmental exposure**

Use appropriate containment to avoid environmental contamination See section 6 for more information

**9. Physical and Chemical Properties****9.1 Information on basic physical and chemical properties**

<b>Physical state</b>	Solid
<b>Appearance</b>	Powder Dust
<b>Color</b>	Off-white
<b>Odor</b>	Odorless

<b>Property</b>	<b>Values</b>	<b>Remarks</b>
<b>pH</b>	Not applicable	
<b>pH @ dilution</b>	7 - 10	5% sol
<b>Melting point</b>	772 °C / 1421.6 °F	
<b>Boiling point/range</b>	> 1600 °C / >2912 °F	
<b>Flash point</b>	Not applicable	
<b>Evaporation rate (BuAc =1)</b>	No information available	
<b>Flammability</b>	Not applicable	
<b>Explosion limits:</b>		
<b>Upper explosion limit</b>	No information available	
<b>Lower explosion limit</b>	No information available	
<b>Vapor pressure</b>	No information available	
<b>Relative Vapor Density</b>	No information available	
<b>Specific gravity</b>	No information available	
<b>Bulk density</b>	No information available	
<b>Water solubility</b>	Soluble in water	
<b>Solubility in other solvents</b>	No information available	
<b>Autoignition temperature</b>	No information available	
<b>Decomposition temperature</b>	No information available	
<b>Kinematic viscosity</b>	No information available	
<b>Dynamic viscosity</b>	No information available	
<b>Partition Coefficient (n-octanol/water)</b>	No information available	
<b>Density and/or Relative Density</b>	2.1 g/cm <sup>3</sup>	
<b>Explosive properties</b>	Not applicable	
<b>Oxidizing properties</b>	None known.	

**9.2 Other information**



**Pour point** No information available  
**Molecular weight** No information available  
**VOC content(%)** None

**Comments**

The data listed above are typical physical and chemical properties and should not be construed as product specification.

## 10. Stability and Reactivity

### 10.1 Reactivity

May release hydrogen gas (explosive) on contact with metals.

### 10.2 Chemical stability

Stable under normal temperature conditions and recommended use.

### 10.3 Possibility of Hazardous Reactions

**Hazardous polymerization**

Hazardous polymerization does not occur.

### 10.4 Conditions to avoid

Avoid contact with water and moist air - product is hygroscopic.

### 10.5 Incompatible materials

Metals. Strong oxidizing agents. Strong acids.

### 10.6 Hazardous decomposition products

See Section 5.2.

## 11. Toxicological Information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

**Acute toxicity**

<b>Inhalation</b>	Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough.
<b>Eye contact</b>	Causes serious eye irritation.
<b>Skin contact</b>	Prolonged contact may cause redness and irritation.
<b>Ingestion</b>	Ingestion may cause stomach discomfort.
<b>Unknown acute toxicity</b>	Not applicable.

**Toxicology data for the components**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
---------------	-----------	-------------	-----------------



Calcium chloride	= 1000 mg/kg ( Rat )	> 5000 mg/kg ( Rabbit )	No data available
------------------	----------------------	-------------------------	-------------------

**Sensitization** This product does not contain any components suspected to be sensitizing.

**Mutagenic effects** This product does not contain any known or suspected mutagens.

**Carcinogenicity** This product does not contain any known or suspected carcinogens.

**Reproductive toxicity** This product does not contain any known or suspected reproductive hazards.

**Routes of Exposure** Eye contact. Inhalation.

**Routes of entry** Eye contact. Inhalation.

**Specific target organ toxicity - Single exposure** Not classified

**Specific target organ toxicity - Repeated exposure** Not classified.

**Aspiration hazard** Not applicable.

#### 11.2 Information on other hazards

**Endocrine disrupting properties** This product does not contain any known or suspected endocrine disruptors.

**Other information** Key literature references and sources for data. See Section 16 for more information.

## 12. Ecological Information

### 12.1 Toxicity

The product component(s) are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.  
Listed on PLONOR list of OSPAR

#### **Toxicity to algae**

See component information below.

#### **Toxicity to fish**

See component information below.

#### **Toxicity to daphnia and other aquatic invertebrates**

See component information below.

#### **Toxicology data for the components**

Chemical Name	Toxicity to fish	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates
Calcium chloride	= 10650 mg/L LC50 <i>Lepomis macrochirus</i> 96 h	No information available	2,400 mg/L EC50 ( <i>Daphnia magna</i> ) = 48 h

### 12.2 Persistence and degradability

See component information below.



Chemical Name	Persistence and degradability
Calcium chloride	Inorganic compound

### 12.3 Bioaccumulative potential

See component information below.

Chemical Name	Bioaccumulation
Calcium chloride	Inorganic compound

### 12.4 Mobility

#### **Mobility**

See component information below.

Chemical Name	Mobility
Calcium chloride	Soluble in water

#### **Mobility in soil**

See component information below.

Chemical Name	Mobility in soil
Calcium chloride	After release, disperses through ground water

### 12.5 Results of PBT and vPvB assessment

Not classified as PBT/vPvB by current EU criteria.

### 12.6 Endocrine disrupting properties.

This product does not contain any known or suspected endocrine disruptors

### 12.7 Other adverse effects

None known.

### 12.8 Additional information

Key literature references and sources for data. See Section 16 for more information.

## **13. Disposal Considerations**

### 13.1 Waste treatment methods

#### **Waste from residues/unused products**

Dispose of in accordance with local regulations.

#### **Contaminated packaging**

Empty containers should be taken to an approved waste handling site for recycling or disposal.

#### **EWC Waste Disposal No**

According to the European Waste Catalog, Waste Codes are not product specific, but application specific Waste codes should be assigned by the user based on the application for which the product was used. The following Waste Codes are only suggestions: EWC



---

waste disposal No: 06 03 14 - solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13 Waste Code: 7091 Inorganic salts and other solids.

## 14. Transport information

### **14.1. UN number**

Not regulated

### **14.2. UN proper shipping name**

The product is not covered by international regulation on the transport of dangerous goods

### **14.3 Hazard class(es)**

ADR/RID/ADN/ADG Hazard class Not regulated

IMDG/ANTAQ Hazard class Not regulated

ICAO/ANAC Hazard class/division Not regulated

### **14.4 Packing group**

ADR/RID/ADN/ADG Packing group Not regulated

IMDG/ANTAQ Packing group Not regulated

ICAO/ANAC Packing group Not regulated

### **14.5 Environmental hazard**

No

### **14.6 Special precautions**

Not applicable

### **14.7 Maritime transport in bulk according to IMO instruments**

Please contact SDS@slb.com for info regarding transport in Bulk.



## 15. Regulatory Information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This safety data sheet complies with the requirements of:  
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008  
Commission Regulation (EU) No 2020/878 of 18 June 2020  
Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)

#### Great Britain

UK REACH Regulations SI 2019/758 of 31 January 2019

#### Dangerous substance category per Seveso Directive (2012/18/EU)

This product does not contain substances listed under Dangerous substance category per Seveso Directive (2012/18/EU)

#### Netherlands

Dutch Mining Regulations: In accordance with Mining Regulations 9.2 and Chapter 4 of the Working Conditions Decree.

### International inventories

USA (TSCA)	Complies
Canada (DSL)	Complies
Philippines (PICCS)	Complies
Japan (ENCS)	Complies
China (IECSC)	Complies
Australia (AICS)	Complies
Korean (KECL)	Complies
New Zealand (NZIoC)	Complies

#### Europe - REACH

All products supplied from the European Economic Area (EEA) are compliant with the REACH Regulation EC 1907/2006. For products supplied from the EEA, Schlumberger and/or its suppliers have pre-registered and is registering all of the substances that it and/or its suppliers manufactures in or imports into the EEA that are subject to Title II of the REACH Regulation. All products supplied from outside the EEA are subject to REACH only if imported into the EEA. The importer of the products must comply with REACH for each imported substance. Contact REACH@slb.com for REACH information.

Norway Pr. no.	46238
Denmark Pr. no:	988590

### 15.2 Chemical Safety Report

No information available

## 16. Other Information

Prepared by	Global Regulatory Compliance - Chemicals (GRC - Chemicals) , Anne Karin (Anka) Fosse
Supersedes Date:	01/Jun/2023
Revision date	27/Oct/2023
Version	10



---

**This SDS has been revised in the following section(s)** 1, 16 No changes with regard to classification have been made.

**Key literature references and sources for data**

www.ChemADVISOR.com

Supplier

National Chemical Inventories

National regulatory information

National occupational exposure limits

**Training Advice**

Do not handle until all safety precautions have been read and understood

Follow general hygiene considerations recognized as common good workplace practices

**HMIS classification**

Health	2
Flammability	0
Physical hazard	0
PPE	E

**Full text of H-Statements referred to under sections 2 and 3**

H319 - Causes serious eye irritation

**Disclaimer**

The information contained herein is considered in good faith as reliable of the date issued and is based upon on measurements, tests or data derived from supplier's own study or furnished by others. In providing this SDS information, Supplier makes no express or implied warranties as to the information or product; merchantability or fitness of purpose; any express or implied warranty; or non-infringement of intellectual property rights; and supplier assumes no responsibility for any direct, special or consequential damages, results obtained, or the activities of others. To the maximum extent permitted by law, supplier's warranty obligations and buyer's sole remedies are as stated in separate agreement between the parties.

This Document is Confidential and Proprietary. Unless Otherwise Marked, It is an Uncontrolled Copy.