

Printing date 31.03.2023 Version number 19 Revision: 31.03.2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking

· 1.1 Product identifier

· Molecular formula: Ca Cl2 · Structure formula: Ca Cl2

Trade name: Calcium chloride dried granular

· SDS number: CH0126

· CAS Number: 10043-52-4

• **EC number:** 233-140-8

• Index number: 017-013-00-2

· Application of the substance / the mixture Chemicals products for laboratory

· 1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

CARLO ERBA REAGENTS

Chaussée du Vexin

Parc d'Affaires des Portes - BP616 27106 VAL DE REUIL Cedex Téléphone: +33 (0)2 32 09 20 00 Télécopie: +33 (0)2 32 09 20 20

· Further information obtainable from:

Q.A / Normative

email: MSDS_CER-SDS@cer.dgroup.it
• 1.4 Emergency telephone number:

Ireland - Tel: 00 353 1 8092568 - 00 353 1 8379964 (24h/24)

EU Tel : 112

National Poisons Information Centre: +353 (1) 809 2166 (8.00 a.m. to 10.00 p.m. 7 days a week)

Healthcare Professionals: +353 (1) 809 2566 (24 hour service)

Members of the public seeking specific information on poisons should contact:

In England and Wales: NHS 111 - dial 111

In Scotland: NHS 24 - dial 111

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008



Eye Irrit. 2 H319 Causes serious eye irritation.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the GB CLP regulation.

· Hazard pictograms



· Signal word Warning

(Contd. on page 2)



Printing date 31.03.2023 Version number 19 Revision: 31.03.2023

Trade name: Calcium chloride dried granular

(Contd. of page 1)

· Hazard statements

H319 Causes serious eye irritation.

· Precautionary statements

P264 Wash contaminated body parts thoroughly after handling.

P280 Wear eye protection / face 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.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

· **PBT:** Not applicable. · **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· 3.1 Chemical characterisation: Substances

· CAS No. Description

CAS: 10043-52-4 calcium chloride

· Identification number(s) · EC number: 233-140-8

· Index number: 017-013-00-2

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · After inhalation: Supply fresh air; consult a doctor in case of complaints.
- · After skin contact:

Immediately wash with water and soap and rinse thoroughly. Wash contaminated clothing before reuse. If skin irritation continues, consult a doctor.

· After eye contact:

Rinse opened eye for several minutes under running water.

Seek immediate medical advice.

- · After swallowing: If some symptoms persist seek for medical advice.
- · Information for doctor: Show the doctor this Material Safety Data Sheet.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- · 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Use fire extinguishing methods suitable to surrounding conditions.

- · 5.2 Special hazards arising from the substance or mixture Hydrogen chloride (HCl)
- · 5.3 Advice for firefighters
- · Protective equipment: Do not inhale gases in case or fire or combustion.

(Contd. on page 3)



Printing date 31.03.2023 Version number 19 Revision: 31.03.2023

Trade name: Calcium chloride dried granular

(Contd. of page 2)

· Additional information Keep receptacles cool with water spray.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Avoid formation of dust.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Ensure adequate ventilation

· 6.2 Environmental precautions:

Do not allow to penetrate the ground/soil.

Do not allow product to reach sewage system or any water course.

Do not allow to enter sewers/surface or ground water.

6.3 Methods and material for containment and cleaning up:

Pick up mechanically.

Provide suction extractors if dust is formed.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of dust.

Provide suction extractors if dust is formed.

- · Information about fire and explosion protection: The product is not flammable.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage.
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · 8.1 Control parameters
- · Additional information about design of technical facilities: No further data; see section 7.
- Ingredients with limit values that require monitoring at the workplace: TLV not established.
- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Avoid contact with the eyes.

· Respiratory protection:

Use suitable respiratory protective device only when aerosol or mist is formed.

Filter P2

· Protection of hands: Rubber gloves

(Contd. on page 4)



Printing date 31.03.2023 Version number 19 Revision: 31.03.2023

Trade name: Calcium chloride dried granular

(Contd. of page 3)

· Material of gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Thin, disposable gloves in PVC or PE

· Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

· Limitation and supervision of exposure into the environment

In case of unintended release of the product: See section 6 of the Safety Data Sheet.

· Risk management measures Keep good industrial hygiene.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

Molecular weight 110.99 g

· Appearance:

Form: Granulate
Colour: White
Odour: Odourless
Odour threshold: Not determined.

• **pH-value:** 8-10 (10%)

· Change in condition

Melting point/freezing point: 782 °C
Initial boiling point and boiling range: >1,600 °C
• Flash point: Not applicable.

· Flammability (solid, gas): Product is not flammable.

• Decomposition temperature: Not determined. • Ignition temperature: Not determined.

• Explosive properties: Product does not present an explosion hazard.

· Explosion limits:

Lower:
Upper:
Not determined.
Not applicable.
Vapour pressure:
Density at 20 °C:
Relative density
Vapour density
Vapour density
Evaporation rate
Not determined.
Not applicable.
Not applicable.

· Solubility in / Miscibility with

water at 20 °C: 740 g/l

· Partition coefficient: n-octanol/water: Not determined.

Viscosity:

Dynamic: Not applicable.

(Contd. on page 5)



Printing date 31.03.2023 Version number 19 Revision: 31.03.2023

Trade name: Calcium chloride dried granular

(Contd. of page 4)

Kinematic:	Not applicable.
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- · 10.1 Reactivity See 10.3
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: Hydrogen chloride (HCl)

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity Based on available data, the classification criteria are not met.
- · LD/LC50 values relevant for classification:

 Oral
 LD50
 2,301 mg/kg (rat)

 Dermal
 LD50
 >5,000 mg/kg (rabbit)

- · Primary irritant effect:
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation

Strong irritant with the danger of severe eye injury.

Causes serious eye irritation.

- · Ingestion: It can be harmfull if swallowed.
- · Inhalation: May be harmful if inhaled.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Other information (about experimental toxicology): No further relevant information available.
- · Target organ information
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity:

Foreseeable as non relevant.

EC50/48h 2,400 mg/l (Daphnia) LC50/96h 4,630 mg/l (fishes)

- · 12.2 Persistence and degradability No further relevant information available.
- · Method
- · Ecological information Not available
- · 12.3 Bioaccumulative potential No further relevant information available.

(Contd. on page 6)



Printing date 31.03.2023 Version number 19 Revision: 31.03.2023

Trade name: Calcium chloride dried granular

(Contd. of page 5)

- · 12.4 Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Reutilise if possible or contact a waste processors for recycling or safe disposal.

- · Uncleaned packaging:
- · Recommendation:

Disposal must be made according to official regulations.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

Chemical treatment of contaminated water.

· Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information		
· 14.1 UN-Number · ADR/RID, ADN, IMDG, IATA	Void	
· 14.2 UN proper shipping name · ADR/RID, ADN, IMDG, IATA	Void	
· 14.3 Transport hazard class(es)		
· ADR/RID, ADN, IMDG, IATA · Class	Void	
· 14.4 Packing group · ADR/RID, IMDG, IATA	Void	
· 14.5 Environmental hazards: · Marine pollutant:	No	
14.6 Special precautions for user	Not applicable.	
· 14.7 Transport in bulk according to Ann Marpol and the IBC Code	ex II of Not applicable.	
· UN "Model Regulation":	Void	

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · SARA Section 355 (extremely hazardous substances) Substance is not listed.
- · SARA Section 313 (specific toxic chemical listings) Substance is not listed.

(Contd. on page 7)



Printing date 31.03.2023 Version number 19 Revision: 31.03.2023

Trade name: Calcium chloride dried granular

(Contd. of page 6)

- · Prop 65 Chemicals known to cause cancer Substance is not listed.
- · Chemical safety assessment
- · Named dangerous substances ANNEX I Substance is not listed.
- · National regulations:
- · Waterhazard class: Water hazard class 1 (Assessment by list): slightly hazardous for water.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Q.A./Normative
- · Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

 $IMO: International\ Maritime\ Oragnization$

Eye Irrit. 2: Serious eye damage/eye irritation - Category 2

·Sources

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006, UK REACH, in the latest valid version.

Regulation (EC) N° 1272/2008 of the European Parliament and of the Council of 16 December 2008, GB CLP, in the latest valid version.

Globally Harmonized System, GHS

ADR/RID, IMDG, IATA

PubChem: an open chemistry database at the National Institutes of Health (NIH)

ECHA: European CHemicals Agency

GESTIS: Information system on hazardous substances of the German Social Accident Insurance

* Data compared to the previous version altered. .

GB ·