

according to Regulation (EC) No. 1907/2006 (REACH)

# **Calcium chloride**

Version number: GHS 1.0 Date of compilation: 27.03.2018

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

#### 1.1 Product identifier

Identification of the substance Calcium chloride

Registration number (REACH) 01-2119494219-28-xxxx

EC number 233-140-8
CAS number 10043-52-4
Alternative number(s) 20140, 20148

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

Relevant identified uses Offshore industries

Industrial use

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

GC Rieber Salt AS Cort Adelers gate 17 0254 Oslo Norway

Telephone: +47 23 03 50 90 e-mail: salt@gcrieber.com Website: www.gcrieber-salt.no

#### 1.4 Emergency telephone number

Poison centre			
Country	Name	Postal code/city	Telephone
Norway	Giftinformasjonen	Oslo	+47 22 59 13 00

### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

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

Section	Hazard class	Cat- egory	Hazard class and category	Hazard state- ment
3.3	serious eye damage/eye irritation	2	Eye Irrit. 2	H319

For full text of abbreviations: see SECTION 16.

#### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

- Signal word warning

Norway: en Page: 1 / 10



acc. to Regulation (EC) No. 1907/2006 (REACH)

# Calcium chloride

Version number: GHS 1.0 Date of compilation: 27.03.2018

### - Pictograms

GHS07



#### - Hazard statements

H319 Causes serious eye irritation.

#### - Precautionary statements

P264 Wash thoroughly after handling.

P280 Wear protective gloves/protective clothing/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

According to the results of its assessment, this substance is not a PBT or a vPvB.

### SECTION 3: Composition/information on ingredients

#### 3.1 Substances

Name of substance Calcium chloride

Identifiers

REACH Reg. No 01-2119494219-28-xxxx

CAS No 10043-52-4 EC No 233-140-8 Index No 017-013-00-2

Purity ≥75 %

Molecular formula CaCl2

Molar mass 111 g/mol

### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

#### General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

#### Following skin contact

Rinse skin with water/shower.

Norway: en Page: 2 / 10



acc. to Regulation (EC) No. 1907/2006 (REACH)

# Calcium chloride

Version number: GHS 1.0 Date of compilation: 27.03.2018

#### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

#### Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

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

Symptoms and effects are not known to date.

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

none

# **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing media

Water, Foam, Alcohol resistant foam, ABC-powder

Unsuitable extinguishing media

Water jet

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

Hazardous combustion products

None

# 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

### **SECTION 6: Accidental release measures**

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

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

### **6.2** Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

# 6.3 Methods and material for containment and cleaning up

Advices on how to contain a spill

Covering of drains, Take up mechanically

Norway: en Page: 3 / 10



acc. to Regulation (EC) No. 1907/2006 (REACH)

# Calcium chloride

Version number: GHS 1.0 Date of compilation: 27.03.2018

Advices on how to clean up a spill

Take up mechanically.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

#### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation Use local and general ventilation. Use only in well-ventilated areas.
- Specific notes/details

Dust deposits may accumulate on all deposition surfaces in a technical room.

#### Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

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

Managing of associated risks

- Explosive atmospheres
  - Removal of dust deposits. Store in a dry place.
- Ventilation requirements
- Use local and general ventilation.
- Packaging compatibilities

Plastic packaging.

#### 7.3 Specific end use(s)

See section 16 for a general overview.

#### **SECTION 8: Exposure controls/personal protection**

# 8.1 Control parameters

not relevant

# Occupational exposure limit values (Workplace Exposure Limits)

Coun try	Name of agent	CAS No	Identi- fier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Source
NO	dust		GV		10			Forskrift, best.nr. 704
NO	dust		GV		5			Forskrift, best.nr. 704

Norway: en Page: 4 / 10



acc. to Regulation (EC) No. 1907/2006 (REACH)

# Calcium chloride

Version number: GHS 1.0 Date of compilation: 27.03.2018

Notation

STEL TWA short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute peri-

od unless otherwise specified

time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours

time-weighted average

#### **Human health values**

Relevant DNELs and other threshold levels				
Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
DNEL	5 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
DNEL	10 mg/m³	human, inhalatory	worker (industry)	acute - local effects

#### 8.2 **Exposure controls**

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

Wear protective gloves.

- Type of material

PVC: polyvinyl chloride, NR: natural rubber, latex, NBR: acrylonitrile-butadiene rubber

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

#### Respiratory protection

[In case of inadequate ventilation] wear respiratory protection. Particulate filter device (EN 143). P2 (filters at least 94 % of airborne particles, colour code: White). P3 (filters at least 99,95 % of airborne particles, colour code: White).

#### Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

### **SECTION 9: Physical and chemical properties**

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

#### **Appearance**

Physical state	solid (powder, crystalline)
Colour	white

Norway: en Page: 5 / 10





acc. to Regulation (EC) No. 1907/2006 (REACH)

# **Calcium chloride**

Version number: GHS 1.0 Date of compilation: 27.03.2018

Tidifiber: Gris 1.0		
Odour	odourless	
Other safety parameters		
pH (value)	8 – 10 (100 <sup>g</sup> / <sub>l</sub> , 20 °C)	
Melting point/freezing point	782 °C at 101,3 kPa	
Initial boiling point and boiling range	1.670 °C	
Flash point	not applicable	
Evaporation rate	not determined	
Flammability (solid, gas)	non-combustible	
Explosion limits of dust clouds	not determined	
Vapour pressure	not determined	
Density	2,15 <sup>g</sup> / <sub>cm³</sub> at 20 °C	
Vapour density	this information is not available	
Solubility(ies)		
- Water solubility	745 <sup>g</sup> / <sub>l</sub> at 20 °C	
Partition coefficient		
- n-octanol/water (log KOW)	this information is not available	
Auto-ignition temperature	not determined	
Viscosity	not relevant (solid matter)	
Explosive properties	none	
Oxidising properties	none	

# 9.2 Other information

Of no significance.

Norway: en Page: 6 / 10



acc. to Regulation (EC) No. 1907/2006 (REACH)

# Calcium chloride

Version number: GHS 1.0 Date of compilation: 27.03.2018

### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

#### 10.2 Chemical stability

See below "Conditions to avoid".

#### 10.3 Possibility of hazardous reactions

Reacts violently with water.

#### 10.4 Conditions to avoid

Protect from moisture.

#### 10.5 Incompatible materials

There is no additional information.

#### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

# **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

#### Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Shall not be classified as acutely toxic.

GHS of the United Nations, annex 4:

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Norway: en Page: 7 / 10



acc. to Regulation (EC) No. 1907/2006 (REACH)

# Calcium chloride

Version number: GHS 1.0 Date of compilation: 27.03.2018

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

### **SECTION 12: Ecological information**

#### 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

#### 12.2 Persistence and degradability

Not applicable.

#### 12.3 Bioaccumulative potential

Not applicable.

#### 12.4 Mobility in soil

Data are not available.

#### 12.5 Results of PBT and vPvB assessment

Data are not available.

#### 12.6 Other adverse effects

Data are not available.

### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Waste treatment-relevant information

Recycling/reclamation of other inorganic materials.

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

#### Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

Norway: en Page: 8 / 10



acc. to Regulation (EC) No. 1907/2006 (REACH)

# **Calcium chloride**

Version number: GHS 1.0 Date of compilation: 27.03.2018

### **SECTION 14: Transport information**

**14.1 UN number** not subject to transport regulations

**14.2 UN proper shipping name** not relevant

**14.3 Transport hazard class(es)** none

**14.4 Packing group** not relevant

**14.5 Environmental hazards** non-environmentally hazardous acc. to the dan-

gerous goods regulations

14.6 Special precautions for user

There is no additional information.

### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

The cargo is not intended to be carried in bulk.

# **Information for each of the UN Model Regulations**

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

Not subject to ADR, RID and ADN.

**International Maritime Dangerous Goods Code (IMDG)** 

Not subject to IMDG.

**International Civil Aviation Organization (ICAO-IATA/DGR)** 

Not subject to ICAO-IATA.

### **SECTION 15: Regulatory information**

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

#### 15.2 Chemical Safety Assessment

For this substance a chemical safety assessment has been carried out.

# **SECTION 16: Other information**

#### **Abbreviations and acronyms**

Abbr.	Descriptions of used abbreviations		
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de naviga- tion intérieures (European Agreement concerning the International Carriage of Dangerous Goods by In- land Waterways)		
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)		
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)		
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures		
DGR	Dangerous Goods Regulations (see IATA/DGR)		
DNEL	Derived No-Effect Level		
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)		

Norway: en Page: 9 / 10





acc. to Regulation (EC) No. 1907/2006 (REACH)

# **Calcium chloride**

Version number: GHS 1.0 Date of compilation: 27.03.2018

Abbr.	Descriptions of used abbreviations
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
Forskrift, best.nr. 704	Forskrift om tiltaksverdier og grenseverdier for fysiske og kjemiske faktorer i arbeidsmiljøet samt smitter- isikogrupper for biologiske faktorer
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
GV	Workplace exposure limit
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regula- tions concerning the International carriage of Dangerous goods by Rail)
STEL	Short-term exposure limit
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative

# Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H319	Causes serious eye irritation.

### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

Norway: en Page: 10 / 10