



according to Regulation (EC) No 1907/2006

Calcium chloride anhydrous pure granular

Revision date: 13.07.2023

Product code: 20094

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

1.1. Product identifier

Calcium chloride anhydrous pure granular

REACH Registration Number:	01-2119494219-28-XXXX
CAS No:	10043-52-4
Index No:	017-013-00-2
EC No:	233-140-8

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

Use of the substance/mixture

Laboratory chemicals Industrial uses: Uses of substances as such or in preparations at industrial sites Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Uses advised against

Do not use for private purposes (household).

.3. Details of the supplier of the safety data sheet
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1.3. Details of the supplier of the sa	<u>fety data sheet</u>	
Company name:	AnalytiChem GmbH	
Street:	Stempelstraße 6	
Place:	D-47167 Duisburg	
Telephone:	0203/5194-0	Telefax: 0203/5194-290
E-mail:	info@analytichem.de	
Contact person:	Abteilung Produktsicherheit	Telephone:0203/5194-107/117
E-mail:	produktsicherheit@analytichem.de	
Internet:	www.analytichem.de	
Responsible Department:	Abteilung Produktsicherheit	
<u>1.4. Emergency telephone</u> number:	For Hazardous Materials [or Dangerou: Exposure, or Accident Call CHEMTRE 1-800-424-9300 Outside USA and Can accepted)	C Day or Night Within USA and Canada:

Further Information

No data available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Eye Irrit. 2; H319

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1	272/2008
Signal word:	Warning
Pictograms:	

Hazard statements H319

Causes serious eye irritation.



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Precautionary statemer	ts	
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing 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		

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

Sum formula:	CaCl2
Molecular weight:	110,98 g/mol

Hazardous components

CAS No	Chemical name			Quantity
	EC No Index No REACH No			
	Classification (Regulation (EC) No 1272/2008)			
10043-52-4	calcium chloride			100 %
	233-140-8	01-2119494219-28-XXXX		
	Eye Irrit. 2; H319			

Full text of H and EUH statements: see section 16.

Specific Con	Specific Conc. Limits, M-factors and ATE						
CAS No	EC No	C No Chemical name					
	Specific Conc. Limits, M-factors and ATE						
10043-52-4	233-140-8 calcium chloride						
dermal: LD50 = > 5000 mg/kg; oral: LD50 = 2120 mg/kg							

Further Information

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

No data available

After inhalation

Provide fresh air. Call a doctor if you feel unwell.

After contact with skin

Wash immediately with: Water

Take off immediately all contaminated clothing and wash it before reuse.

After contact with eyes

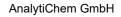
After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion

Rinse mouth immediately and drink plenty of water. Call a physician immediately. Quantity

100 %





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

Gastrointestinal complaints Irritant

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

no restriction

5.2. Special hazards arising from the substance or mixture

Non-combustible solids Hazardous combustion products In case of fire may be liberated: Hydrogen chloride (HCI)

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes. Avoid contact with skin, eyes and clothes.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Move undamaged containers from immediate hazard area if it can be done safely. Use water spray jet to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Provide adequate ventilation. Use personal protection equipment. Avoid contact with skin, eyes and clothes. Remove persons to safety. Emergency procedures Do not breathe dust/fume/gas/mist/vapours/spray.

For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8

6.2. Environmental precautions

No special environmental measures are necessary.

6.3. Methods and material for containment and cleaning up

For containment

Cover drains.

Prevent spread over a wide area (e.g. by containment or oil barriers).

Collect in closed and suitable containers for disposal.

Take up carefully when dry. Take up dust-free and set down dust-free.

For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

Other information

Provide adequate ventilation. Do not breathe dust/fume/gas/mist/vapours/spray.



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Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Read label before use. Handle and open container with care. Provide adequate ventilation. Avoid contact with skin, eyes and clothes. Avoid dust formation. Do not breathe dust.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Advice on general occupational hygiene

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

Further information on handling

Take off contaminated clothing and wash it before reuse. Wash hands before breaks and after work.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed and dry.

Further information on storage conditions

storage temperature +5°C - +30°C.

7.3. Specific end use(s)

Laboratory chemicals

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL values

CAS No	Substance				
DNEL type Exposure route Effect Value				Value	
10043-52-4	10043-52-4 calcium chloride				
Worker DNEL,	EL, long-term inhalation local 5 mg/m³				
Worker DNEL, acute		inhalation	local	10 mg/m³	
Consumer DNEL, long-term		inhalation	local	2,5 mg/m³	
Consumer DNEL, acute		inhalation	local	5 mg/m³	

8.2. Exposure controls

Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

Individual protection measures, such as personal protective equipment



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Eye/face protection

Wear eye/face protection.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

By long-term hand contact Trade name/designation: KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11 mm Wearing time with permanent contact: > 480 min

By short-term hand contact Trade name/designation: KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11 mm Wearing time with occasional contact (splashes): > 480 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Skin protection

Wear suitable protective clothing. Take off immediately all contaminated clothing. Wash hands before breaks and after work.

Respiratory protection

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Filtering device with filter or ventilator filtering device of type: P2

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

F	Physical state:	solid	
C	Colour:	white	
C)dour:	odourless	
C	Ddour threshold:	not determined	
Ν	lelting point/freezing point:		772 °C
E	Boiling point or initial boiling point and		not determined
b	oiling range:		
F	lammability:		not determined
L	ower explosion limits:		not determined
ι	Ipper explosion limits:		not determined
F	lash point:		Х
Α	uto-ignition temperature:		not determined
р	H-Value (at 20 °C):		8-10 (100 g/l)



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Viscosity / kinematic:	not determined					
Water solubility:	740 g/L					
(at 20 °C)						
Solubility in other solvents						
not determined						
Dissolution rate:	not determined					
Partition coefficient n-octanol/water:	not determined					
Dispersion stability:	not determined					
Vapour pressure:	not determined					
Vapour pressure:	not determined					
Density:	2,15 g/cm³ not determined					
Bulk density:	not determined					
Relative vapour density: Particle characteristics:						
9.2. Other information	not determined					
Information with regard to physical hazard classes	No data available					
Sustaining combustion: Self-ignition temperature	NO data available					
Solid:	not determined					
Gas:	not applicable					
Oxidizing properties						
Not oxidising.						
Other safety characteristics						
Evaporation rate:	not determined					
Solvent separation test:	not determined					
Solvent content:	not determined					
Solid content:	100%					
Sublimation point:	not determined					
Softening point:	not determined					
Pour point:	not determined					
not determined:						
Viscosity / dynamic:	not determined					
Flow time:	not determined					
Further Information						

Further Information

not determined

SECTION 10: Stability and reactivity

10.1. Reactivity

Exothermic reaction with: Water

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Bortrifluorid, Vinylmethylether metals Zinc

10.4. Conditions to avoid

Protect against: Humidity

10.5. Incompatible materials

No data available



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10.6. Hazardous decomposition products

In case of fire may be liberated:

SECTION 5: Firefighting measures

Further information

No data available

SECTION 11: Toxicological information

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

Toxicocinetics, metabolism and distribution

No data available

Acute toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name					
	Exposure route Dose			Species	Source	Method
10043-52-4	calcium chloride					
	oral LD50 2120 mg/kg		Rat	Study report (1987)	OECD Guideline 401	
			Rabbit	Other company data (1981)	Method: other	

Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

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. No data available

Information on likely routes of exposure

No data available

Specific effects in experiment on an animal

No data available

Additional information on tests

No data available

Practical experience

No data available

11.2. Information on other hazards

Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

Further information

Gastrointestinal complaints Irritant



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SECTION 12: Ecological information

12.1. Toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name							
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method	
10043-52-4	calcium chloride							
	Acute fish toxicity	LC50 mg/l	4630	96 h	Pimephales promelas	Env. Toxicol. Chem., 16(10), 2009-2019.	Method: other: EPA/600/4-90/02 7, EPA/600	
	Acute algae toxicity	ErC50 mg/l	2900		Pseudokirchneriella subcapitata	Study report (1998)	OECD Guideline 201	
	Acute crustacea toxicity	EC50 mg/l	2400	48 h	Daphnia magna	Study report (1998)	OECD Guideline 202	

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects

No data available

Further information

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Do not empty into drains.

Contaminated packaging

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.
Inland waterways transport (ADN)	
14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
<u>14.3. Transport hazard class(es):</u>	No dangerous good in sense of this transport regulation.
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14.4. Packing group:	No dangerous good in sense of this transport regulation.						
Marine transport (IMDG)							
14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.						
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.						
<u>14.3. Transport hazard class(es):</u>	No dangerous good in sense of this transport regulation.						
14.4. Packing group:	No dangerous good in sense of this transport regulation.						
Air transport (ICAO-TI/IATA-DGR)							
14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.						
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.						
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.						
14.4. Packing group:	No dangerous good in sense of this transport regulation.						
14.5. Environmental hazards							
ENVIRONMENTALLY HAZARDOUS:	No						
14.6. Special precautions for user No dangerous good in sense of this transport regulation. 14.7. Maritime transport in bulk according to IMO instruments not applicable							
SECTION 15: Regulatory information							
15.1. Safety, health and environmental regu	lations/legislation specific for the substance or mixture						
EU regulatory information							
Restrictions on use (REACH, annex XVII):							
Entry 75							
National regulatory information							
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juv	venile					
	work protection guideline' (94/33/EC).						
Water hazard class (D):	1 - slightly hazardous to water						
15.2. Chemical safety assessment							
For this substance a chemical safety assessment has not been carried out.							
SECTION 16: Other information							

Changes

This data sheet contains changes from the previous version in section(s): 9,11,12.

Abbreviations and acronyms

ADR: Accord européen sur le transport 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 Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service LC50: Lethal concentration, 50% LD50: Lethal dose, 50% Eye Irrit: Eye irritation

Relevant H and EUH statements (number and full text)

H319 Causes serious eye irritation.