



according to Regulation (EC) No 1907/2006

# Calcium chloride solution R Reag. Ph. Eur., chapter 4.1.1

Revision date: 09.09.2024

Product code: 12234

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

# 1.1. Product identifier

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# 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).

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

Company name:	AnalytiChem GmbH ACD	
Street: Place:	Stempelstraße 6 D-47167 Duisburg	
Telephone: E-mail:	0203/5194-0 info@analytichem.de	Telefax:0203/5194-290
Contact person: E-mail: Internet: Responsible Department:	Abteilung Produktsicherheit produktsicherheit@analytichem.de www.analytichem.de Abteilung Produktsicherheit	Telephone: 0203/5194-107/117
<u>1.4. Emergency telephone</u> number:	Exposure, or Accident Call CHEMTR	ous Goods] Incidents Spill, Leak, Fire, REC Day or Night Within USA and Canada: canada: +1 703-741-5970 (collect calls

### **Further Information**

This product is a mixture. REACH Registration Number see section 3.

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

# 2.1. Classification of the substance or mixture

#### Regulation (EC) No 1272/2008

This mixture is not classified as hazardous in accordance with Regulation (EC) No 1272/2008.

# 2.2. Label elements

#### Regulation (EC) No 1272/2008

#### Special labelling of certain mixtures

Safety data sheet available on request.

# EUH210 2.3. Other hazards

No data available

# **SECTION 3: Composition/information on ingredients**

# 3.2. Mixtures

# Chemical characterization

Mixtures in aqueous solution



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#### **Relevant ingredients**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation	(EC) No 1272/2008)		
10035-04-8	Calcium chloride dihydrate	e		5 - < 10 %
	233-140-8	017-013-00-2	01-2119494219-28	
	Eye Irrit. 2; H319			

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

Specific Con	c. Limits, M-fac	tors and ATE	
CAS No	EC No	Chemical name	Quantity
	Specific Conc.	Limits, M-factors and ATE	
10035-04-8	233-140-8	Calcium chloride dihydrate	5 - < 10 %
	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

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

#### After ingestion

Rinse mouth immediately and drink plenty of water.

Call a physician immediately.

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

No data available

# 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 liquids

Hazardous combustion products



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In case of fire may be liberated:

Hydrogen chloride (HCI)

# 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

#### Additional information

Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

# **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 Consult an expert 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. Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

#### 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. 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

Handle and open container with care. Provide adequate ventilation. Avoid contact with skin, eyes and clothes. Do not breathe vapour/aerosol.

# Advice on protection against fire and explosion

No special fire protection measures are necessary.

#### Advice on general occupational hygiene Take off contaminated clothing.



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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.

#### Hints on joint storage

No special measures are necessary.

### Further information on storage conditions

No data available

# 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
10035-04-8	Calcium chloride dihydrate			
Worker DNEL,	long-term	inhalation	local	5 mg/m³
Worker DNEL,	acute	inhalation	local	10 mg/m <sup>3</sup>
Consumer DNE	EL, long-term	inhalation	local	2,5 mg/m³
Consumer DNE	EL, 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

#### Eye/face protection

Wear eye protection/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



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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**

Respiratory protection necessary at: aerosol or mist formation The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

# **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

9.1. Information on pasic physical and cher	nical properties	
Physical state:	Liquid	
Colour:	colourless	
Odour:	odourless	
Odour threshold:	not determined	
Melting point/freezing point:		not determined
Boiling point or initial boiling point and		not determined
boiling range:		
Flammability:		not determined
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Flash point:		Х
Auto-ignition temperature:		not determined
Decomposition temperature:		not determined
pH-Value:		5,5
Viscosity / kinematic:		not determined
Water solubility:		completely miscible
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:		1,0425 g/cm³
Relative density:		not determined
Bulk density:		not determined
Relative vapour density:		not determined
Particle characteristics:		not determined
9.2. Other information		

#### Information with regard to physical hazard classes



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Sustaining combustion:	No data available	
Self-ignition temperature		
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:	not determined	
Sublimation point:	not determined	
Softening point:	not determined	
Pour point:	not determined	
not determined:		
Viscosity / dynamic:	not determined	
Flow time:	not determined	
Further Information		
not determined		
SECTION 10: Stability and reactivity		

# 10.1. Reactivity

No data available

#### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

No data available

# 10.4. Conditions to avoid

No data available

# 10.5. Incompatible materials

No data available

# 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

There are no data available on the mixture itself.

#### Acute toxicity

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

### ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l



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CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
10035-04-8	Calcium chloride dihydra	ate				
	oral	LD50 mg/kg	2120	Rat	Study report (1987)	OECD Guideline 401
	dermal	LD50 mg/kg	> 5000	Rabbit	Other company data (1981)	Method: other

#### Irritation and corrosivity

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

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. There are no data available on the mixture itself.

# Specific effects in experiment on an animal

There are no data available on the mixture itself.

#### Additional information on tests

There are no data available on the mixture itself.

#### **Practical experience**

No data available

# 11.2. Information on other hazards

#### Endocrine disrupting properties

There are no data available on the mixture itself.

#### Other information

There are no data available on the mixture itself.

#### **Further information**

There are no data available on the mixture itself.

#### SECTION 12: Ecological information

#### 12.1. Toxicity

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



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CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
10035-04-8	Calcium chloride dihydrate	e					
	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

There are no data available on the mixture itself.

### 12.3. Bioaccumulative potential

There are no data available on the mixture itself.

# 12.4. Mobility in soil

There are no data available on the mixture itself.

# 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### 12.6. Endocrine disrupting properties

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

#### 12.7. Other adverse effects

Do not empty into drains.

# Further information

Discharge into the environment must be avoided.

#### **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. 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: Inland waterways transport (ADN) No dangerous good in sense of this transport regulation. 14.1. UN number or ID number: No dangerous good in sense of this transport regulation. 14.2. UN proper shipping name: 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. Marine transport (IMDG) No dangerous good in sense of this transport regulation. 14.1. UN number or ID number:



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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.	
Air transport (ICAO-TI/IATA-DGR)		
<u>14.1. UN number or ID number:</u>	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. 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		
14.7. Maritime transport in bulk according	to IMO instruments	
not applicable		
SECTION 15: Regulatory information		
15.1. Safety, health and environmental reg	gulations/legislation specific for the substance or mixture	
15.1. Safety, health and environmental regulatory information Water hazard class (D):	gulations/legislation specific for the substance or mixture 1 - slightly hazardous to water	
National regulatory information		
<b>National regulatory information</b> Water hazard class (D):		
National regulatory information Water hazard class (D): SECTION 16: Other information Changes		
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