

Calcium chloride s	olution 0.5 mol/l 109.55 g CaCl2 * 6 test DIN	H2O/I in water for daphnia and fish
Revision date: 19.04.2024	Product code: 20732	Page 1 o
SECTION 1: Identification of t	he substance/mixture and of the comp	any/undertaking
<u>1.1. Product identifier</u> Calcium chloride solution 0	.5 mol/l 109.55 g CaCl2 * 6 H2O/l in water fo	r daphnia and fish test DIN
1.2. Relevant identified uses of the second se	ne substance or mixture and uses advised	against
	ostances as such or in preparations at indust omain (administration, education, entertainm	
Uses advised against		
Do not use for private purp	oses (household).	
1.3. Details of the supplier of the	safety data sheet	
Company name: Street:	AnalytiChem GmbH ACD Stempelstraße 6	
Place:	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:	For Hazardous Materials [or Dangerou Exposure, or Accident Call CHEMTRE 1-800-424-9300 Outside USA and Ca accepted)	C Day or Night Within USA and Canada:
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 Eye Irrit. 2; H319

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Pictograms:

Regulation (EC) No 1272/2008

Signal word:





Hazard statements

H319

Causes serious eye irritation.

Precautionary statements

P280 Wear p

Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.



Calcium chloride solution 0.5 mol/l 109.55 g CaCl2 * 6 H2O/l in water for daphnia and fish test DIN Revision date: 19.04.2024 Product code: 20732 Page 2 of 10 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Find the set of the 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

3.2. Mixtures

Chemical characterization

Mixtures in aqueous solution

Relevant ingredients

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation	on (EC) No 1272/2008)		
10035-04-8	Calcium chloride dihydra	ate		10 - < 15 %
	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 Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. L	imits, M-factors and ATE	
10035-04-8	233-140-8	Calcium chloride dihydrate	10 - < 15 %
	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.

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

Gastrointestinal complaints Irritant



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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 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 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.



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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. 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. 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.

Hints on joint storage

No special measures are necessary.

Further information on storage conditions

Keep container dry.

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/m³
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.



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Individual protection measures, such as personal protective equipment

Eye/face protection

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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.

The choice of body protection depends on the concentration and quantity of hazardous substances. The chemical resistance of protective agents must be clarified with their suppliers.

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

Physical state: Colour: Odour:	Liquid colourless odourless	
Odour threshold:	not determined	
Melting point/freezing point:		not determined
Boiling point or initial boiling point and	I	not determined
boiling range:		
Flammability:		not determined



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Density:1,025 g/cm³Bulk density:not determinedRelative vapour density:not determined9.2. Other informationInformation with regard to physical hazard classes	Vapour pressure:	not determined			
Bulk density: not determined Relative vapour density: not determined 9.2. Other information Information with regard to physical hazard classes	Vapour pressure:	not determined			
Relative vapour density: not determined 9.2. Other information Information with regard to physical hazard classes	Density:	1,025 g/cm³			
9.2. Other information Information with regard to physical hazard classes	Bulk density:	not determined			
Information with regard to physical hazard classes	Relative vapour density:	not determined			
	9.2. Other information				
Sustaining computing:	Information with regard to physical hazard c	lasses			
	Sustaining combustion:	No data available			
Self-ignition temperature	Self-ignition temperature				
Solid: not determined	Solid:	not determined			
Gas: not applicable	Gas:	not applicable			
Oxidizing properties	Oxidizing properties				
Not oxidising.	Not oxidising.				
Other safety characteristics	Other safety characteristics				
Evaporation rate: not determined	Evaporation rate:	not determined			
Solvent separation test: not determined	Solvent separation test:	not determined			
Solvent content: not determined	Solvent content:	not determined			
Solid content: not determined	Solid content:	not determined			
Sublimation point: not determined	Sublimation point:	not determined			
Softening point: not determined	Softening point:	not determined			
Pour point: not determined	Pour point:	not determined			
not determined:	not determined:				
Viscosity / dynamic: not determined	Viscosity / dynamic:	not determined			
Flow time: not determined		not determined			
Further Information	Further Information				
not determined	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

Bortrifluorid, Vinylmethylether metals Zinc

10.4. Conditions to avoid

No data available



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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

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

Irritation and corrosivity

Serious eye damage/eye irritation: 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

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

There are no data available on the mixture itself.



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11.2. Information on other hazards

Other information

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There are no data available on the mixture itself.

Further information

Gastrointestinal complaints Irritant

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
10035-04-8	Calcium chloride dihydrate						
	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

Discharge into the environment must be avoided.

Further information

Do not empty into drains.

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)



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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.	
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.	
<u>14.4. Packing group:</u>	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.	
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)		
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 tra		
14.7. Maritime transport in bulk according to	o IMO instruments	
not applicable		
SECTION 15: Regulatory information		
15.1. Safety, health and environmental regul	ations/legislation specific for the substance or mixture	
EU regulatory information		
Restrictions on use (REACH, annex XVII):		
Entry 3		
National regulatory information		
	Observe restrictions to employment for investige association to the linear	vilo
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juver work protection guideline' (94/33/EC).	llie
Water hazard class (D):	1 - slightly hazardous to water	
	i - Signay hazardous to water	
15.2. Chemical safety assessment		
For this substance a chemical safety as	ssessment has not been carried out	

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): 9,12.



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(European Agreement IMDG: International M IATA: International Air GHS: Globally Harmor EINECS: European In ELINCS: European Lis CAS: Chemical Abstra LC50: Lethal concentr LD50: Lethal dose, 50	en sur le transport des marchandises dangereuses par Route t concerning the International Carriage of Dangerous Goods by Road) laritime Code for Dangerous Goods r Transport Association nized System of Classification and Labelling of Chemicals eventory of Existing Commercial Chemical Substances st of Notified Chemical Substances acts Service ration, 50%	2008 [CLP]
Classification	Classification procedure	
Eye Irrit. 2; H319	Calculation method	
Relevant H and EUH stat H319	tements (number and full text) Causes serious eye irritation.	

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)