

0,12 M Ammoniumacetat + 0,24 M CaCl2 x 2 H2O eingestellt auf pH 3,5

Revision date: 05.03.2025

Product code: 34992

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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:	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	
1.4. Emergency telephone	For Hazardous Materials [or Danger	ous Goods] Incidents Spill, Leak, Fire,
number:	Exposure, or Accident Call CHEMTF	REC Day or Night Within USA and Canada:
	1-800-424-9300 Outside USA and C	Canada: +1 703-741-5970 (collect calls
	accepted)	

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					
	EC No	Index No	REACH No			
	Classification (Regulation (EC) No 1272/2008)					
10035-04-8	Calcium chloride dihydrate		1 - < 5 %			
	233-140-8	017-013-00-2	01-2119494219-28			
	Eye Irrit. 2; H319					
631-61-8	ammonium acetate					
	211-162-9					

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. Limits, M-factors and ATE				
10035-04-8	233-140-8	Calcium chloride dihydrate	1 - < 5 %		
	dermal: LD50 = > 5000 mg/kg; oral: LD50 = 2120 mg/kg				
631-61-8	211-162-9	ammonium acetate	< 1 %		
	dermal: LD50 =				

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.

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 doctor if you feel unwell.

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.



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Unsuitable extinguishing media

no restriction

5.2. Special hazards arising from the substance or mixture

Non-combustible liquids

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

General advice

No data available

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

Do not allow to enter into surface water or drains.

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). Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal.

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. Keep container tightly closed. Do not breathe vapour/aerosol. Avoid contact with skin, eyes and clothes.



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Advice on protection against fire and explosion

Usual measures for fire prevention.

Advice on general occupational hygiene

Wash contaminated clothing prior to re-use. Do not breathe vapour/aerosol.

Avoid contact with skin, eyes and clothes.

Further information on handling

Wash contaminated clothing 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 data available

Further information on storage conditions

Store in a dry place.

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 ³
Consumer DN	EL, long-term	inhalation	local	2,5 mg/m³
Consumer DN	EL, acute	inhalation	local	5 mg/m³
631-61-8	ammonium acetate			
Worker DNEL	, long-term	inhalation	systemic	911,56 mg/m ³
Worker DNEL	, acute	inhalation	systemic	5469,35 mg/m ³
Worker DNEL	long-term	dermal	systemic	10,34 mg/kg bw/day
Worker DNEL	, acute	dermal	systemic	62,04 mg/kg bw/day
Consumer DN	EL, long-term	inhalation	systemic	449,56 mg/m ³
Consumer DN	EL, acute	inhalation	systemic	2674,16 mg/m ³
Consumer DN	EL, long-term	dermal	systemic	5,17 mg/kg bw/day
Consumer DNEL, acute		dermal	systemic	31,02 mg/kg bw/day
Consumer DN	EL, long-term	oral	systemic	5,17 mg/kg bw/day
Consumer DN	EL, acute	oral	systemic	31,02 mg/kg bw/day



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PNEC values

CAS No	Substance				
Environmental compartment Value					
631-61-8	ammonium acetate				
Freshwater		3,08 mg/l			
Marine water 0,308 mg/l					
Freshwater sediment 2,51 mg/kg					
Marine sediment 0,251 mg/kg					
Micro-organisms in sewage treatment plants (STP) 67					
Soil		0,72 mg/kg			

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

goggles

Hand protection

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

Recommended glove articles: KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11mm Wearing time with permanent contact: >480min

By short-term hand contact

Recommended glove articles: KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11mm Wearing time with occasional contact (splashes): >480min

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.

Wash hands before breaks and after work.

Respiratory protection

Respiratory protection necessary at: aerosol or mist formation

Thermal hazards

No data available

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:

Liquid



according to Regulation (EC) No 1907/2006 0,12 M Ammoniumacetat + 0,24 M CaCl2 x 2 H2O eingestellt auf pH 3,5

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Colour:	clear		
Odour:	odourless		
Odour threshold:	No data available		
Melting point/freezing point:		No data available	
Boiling point or initial boiling point and		No data available	
boiling range:			
Flammability:		No data available	
Lower explosion limits:		No data available	
Upper explosion limits:		No data available	
Flash point:		No data available	
Auto-ignition temperature:		No data available	
Decomposition temperature:		No data available	
pH-Value:		~3,5	
Viscosity / kinematic:		No data available	
Water solubility:		No data available	
Solubility in other solvents			
No data available			
Dissolution rate:		No data available	
Partition coefficient n-octanol/water:		No data available	
Dispersion stability:		No data available	
Vapour pressure:		No data available	
Vapour pressure:		No data available	
Density:		No data available	
Relative density:		No data available	
Bulk density:		No data available	
Relative vapour density:		No data available	
Particle characteristics:		No data available	
9.2. Other information			
Information with regard to physical haz	ard classes		
Explosive properties			
No data available			
Sustaining combustion:		No data available	
Self-ignition temperature			
Solid:		No data available	
Gas:		No data available	
Oxidizing properties			
No data available			
Other safety characteristics			
Evaporation rate:		No data available	
Solvent separation test:		No data available	
Solvent content:		0%	
Solid content:		0%	
Sublimation point:		No data available	
Softening point:		No data available	
Pour point:		No data available	
No data available:			
Viscosity / dynamic:		No data available	
Flow time:		No data available	
Further Information			
No data available			

SECTION 10: Stability and reactivity



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10.1. Reactivity

There are no data available on the mixture itself.

10.2. Chemical stability

There are no data available on the mixture itself.

10.3. Possibility of hazardous reactions

There are no data available on the mixture itself.

10.4. Conditions to avoid

There are no data available on the mixture itself.

10.5. Incompatible materials

There are no data available on the mixture itself.

10.6. Hazardous decomposition products

There are no data available on the mixture itself.

Further information

There are no data available on the mixture itself.

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 dihydrat	e					
	oral	LD50 2120 mg/kg	Rat	Study report (1987)	OECD Guideline 401		
	dermal	LD50 > 5000 mg/kg	Rabbit	Other company data (1981)	Method: other		
631-61-8	ammonium acetate						
	oral	LD50 >= 2333,28 mg/kg		Read-across (2010)	Read-across approach from published expe		
	dermal	LD50 > 26556,42 mg/kg		Read-across (2010)	Read-across approach from published expe		

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.



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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.

Information on likely routes of exposure

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.

11.2. Information on other hazards

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.

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.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
10035-04-8	Calcium chloride dihydrat	е					
	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	72 h	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
631-61-8	ammonium acetate						
	Acute algae toxicity	ErC50 mg/l	> 1000	72 h	Skeletonema costatum	Study report (2005)	ISO 10253
	Acute crustacea toxicity	EC50 mg/l	> 360,89	48 h		Read-across (2010)	Read-across approach from Letter of Acce
	Fish toxicity	NOEC	154 mg/l	60 d	Cyprinus carpio	Publication (1999)	OECD Guideline 204

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.



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Partition coefficient n-octanol/water

CAS No	Chemical name				Log Pow		
631-61-8	ammonium acetate	ammonium acetate					
BCF							
CAS No	Chemical name	BCF	Species	Source			
631-61-8	ammonium acetate	3,162		Calculation	Calculation (2010)		

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

There are no data available on the mixture itself.

Further information

Do not allow to enter into surface water or 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 allow to enter into surface water or 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: 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Inland waterways transport (ADN) 14.1. UN number or ID number: 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Marine transport (IMDG) 14.1. UN number or ID number: 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Air transport (ICAO-TI/IATA-DGR) 14.1. UN number or ID number: 14.2. UN proper shipping name: 14.3. Transport hazard class(es):

14.4. Packing group:

No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation.

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14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS:

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

No dangerous good in sense of this transport regulation.

SECTION 15: Regulatory information

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

No

National regulatory information

Water hazard class (D):

Additional information

No data available

SECTION 16: Other information

Abbreviations and acronyms Eye Irrit: Eye irritation

Relevant H and EUH statements (number and full text)

H319Causes serious eye irritation.EUH210Safety data sheet available on request.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

1 - slightly hazardous to water

Provide appropriate information, instructions and training to users

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