

according to Regulation (EC) No 1907/2006

SECTION 1: Identification of the	e substance/mixture and of the comr		
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I.1. Product identifier	n de fan en eksis eksistellin e		
Aluminium chloride hexahydr			
	e substance or mixture and uses advised	lagainst	
Use of the substance/mixture			
Laboratory chemical	stances as such or in preparations at indus	trial sites	
	main (administration, education, entertainn		
Uses advised against		· · · · · · · · · · · · · · · · · · ·	
Do not use for private purpos	ses (household).		
I.3. Details of the supplier of the s	, , , , , , , , , , , , , , , , , , ,		
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		
I.4. Emergency telephone	For Hazardous Materials [or Dangero	us Goods] Incidents Spill, Leak, Fire, EC Day or Night Within USA and Canada:	
number:	1-800-424-9300 Outside USA and Ca accepted)		
Further Information			
i his product is a mixture. RE	EACH Registration Number see section 3.		
SECTION 2: Hazards identificat	tion		
2.1. Classification of the substance	<u>e or mixture</u>		

Eye Irrit. 2; H319 Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Signal word:

Pictograms:



Hazard statements

H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.
	atomonto

Precautionary statements

· · · · · · · · · · · · · · · · · · ·	
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing



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	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.						
<u>2.3. Other hazards</u> No data available							

3.2. Mixtures

3.2. MIXtures

Chemical characterization Mixtures in aqueous solution

SECTION 3: Composition/information on ingredients

Hazardous components

CAS No	Chemical name				
	EC No	Index No	REACH No		
Classification (Regulation (EC) No 1272/2008)					
10277-43-7	lanthannitrate hexahydrate				
	233-238-0				
	Ox. Sol. 2, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 1; H272 H318 H400 H410				

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

Specific Cond	Specific Conc. Limits, M-factors and ATE					
CAS No	EC No Chemical name					
	Specific Conc. Limits, M-factors and ATE					
10277-43-7	233-238-0 lanthannitrate hexahydrate					
dermal: LD50 = > 2000 mg/kg; oral: LD50 = 4500 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.

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

4.3. Indication of any immediate medical attention and special treatment needed No data available



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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: Nitrogen oxides (NOx) Metal oxide smoke, toxic

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Avoid contact with skin, eyes and clothes.

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 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).

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



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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Do not breathe vapour/aerosol. Read label before use.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

Further information on handling

Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. Take off immediately all contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store in a dry place.

Further information on storage conditions

Keep container tightly closed.

7.3. Specific end use(s)

Laboratory chemicals

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

PNEC values

CAS No	Substance		
Environmental compartment Value			
10277-43-7	lanthannitrate hexahydrate		
Freshwater		0,0006 mg/l	
Freshwater (ir	0,00245 mg/l		
Marine water		0,00006 mg/l	
Freshwater se	13,2 mg/kg		
Marine sedime	1,32 mg/kg		
Micro-organis	7,08 mg/l		
Soil	0,93 mg/kg		

8.2. Exposure controls

Appropriate engineering controls

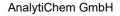
Technical measures and the application of suitable work processes have priority over personal protection equipment.

Provide adequate ventilation as well as local exhaustion at critical locations.

Individual protection measures, such as personal protective equipment

Eye/face protection

Suitable eye protection: goggles.





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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.

Respiratory protection

Respiratory protection necessary at: aerosol or mist formation

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:	Liquid	
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 applicable
Upper explosion limits:		not applicable
Flash point:		not applicable
Auto-ignition temperature:		not determined
Decomposition temperature:		No data available
pH-Value:		not determined
Viscosity / kinematic:		not determined
Water solubility:		completely miscible



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Solubility in other solvents	
not determined	
Dissolution rate:	not determined
Partition coefficient n-octanol/water:	No data available
Dispersion stability:	not determined
Vapour pressure:	No data available
Vapour pressure:	not determined
Density:	1,005 g/cm³
Relative density:	not determined
Bulk density:	No data available
Relative vapour density:	not determined
Particle characteristics:	not determined
9.2. Other information	
Information with regard to physical hazard classes	
Explosive properties	
No data available	
Sustaining combustion:	No data available
Self-ignition temperature	
Solid:	not determined
Gas:	not applicable
Oxidizing properties	
No data available	
Other safety characteristics	
Evaporation rate:	not determined
Solvent separation test:	not determined
Solvent content:	not determined
Solid content:	0
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



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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	
10277-43-7	lanthannitrate hexahydrate						
	oral	LD50 mg/kg	4500		Industrial Hygiene and Occupational Medi	OECD Guideline 401	
	dermal	LD50 mg/kg	> 2000	Rat	Study report (2013)	OECD Guideline 402	

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.

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

There are no data available on the mixture itself.

Other information

There are no data available on the mixture itself.

Further information

Irritant



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SECTION 12: Ecological information

12.1. Toxicity

There are no data available on the mixture itself.

CAS No	Chemical name							
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method	
10277-43-7	7 Ianthannitrate hexahydrate							
	Acute fish toxicity	LC50 mg/l	0,42	96 h	Oncorhynchus mykiss	Study report (2014)	OECD Guideline 203	
	Acute algae toxicity	ErC50	0,9 mg/l	72 h	Pseudokirchneriella subcapitata	Study report (2014)	OECD Guideline 201	
	Acute crustacea toxicity	EC50 mg/l	0,043	48 h	other aquatic crustacea: Daphnia carinata	Chemosphere 41 (10): 1669-1674 (2000)	OECD Guideline 202	
	Fish toxicity	NOEC mg/l	0,26	21 d	Cyprinus carpio	Study report (1995)	OECD Guideline 204	
	Crustacea toxicity	NOEC mg/l	0,03	21 d	other aquatic crustacea: Daphnia carinata	Chemosphere 41 (10): 1669-1674 (2000)	OECD Guideline 211	
	Acute bacteria toxicity	(EC50 mg/l)	221	3 h	activated sludge of a predominantly domestic sewag	Study report (2009)	OECD Guideline 209	

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.

BCF

CAS No	Chemical name	BCF	Species	Source
10277-43-7	lanthannitrate hexahydrate	12000	Corophium volutator	Environmental Toxico

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 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. Send to a physico-chemical treatment facility under observation of official regulations. Do not empty into drains. Do not mix with other wastes.

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.



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No dangerous good in sense of this transport regulation.

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No dangerous good in sense of this transport regulation.

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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:

14.4. Packing group:

14.3. Transport hazard class(es):

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	regulations/legislation s	specific for the substance or mixture

EU regulatory information

	U	
	Restrictions on use (REACH, annex XVII):	
	Entry 3	
	Information according to 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)
	National regulatory information	
	Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juvenile
		work protection guideline' (94/33/EC).
	Water hazard class (D):	1 - slightly hazardous to water
15	.2. Chemical safety assessment	

1

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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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%

Ox. Sol: Oxidising solid

Eve Dam: Eve damage

Eye Irrit: Eye irritation

Aquatic Acute: Acute aquatic hazard Aquatic Chronic: Chronic aquatic hazard

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Eye Irrit. 2; H319	Calculation method
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

H272	May intensify fire; oxidiser.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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.

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