

Aluminium ammonium sulfate dodecahydrate for analysis, ACS

Revision date: 19.05.2023

Product code: 20346

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

1.1. Product identifier

Aluminium ammonium sulfate dodecahydrate for analysis, ACS

CAS No:	7784-26-1
EC No:	232-055-3

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

Use of the substance/mixture

Laboratory chemical

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: Street: Place:	AnalytiChem GmbH 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
1.4. Emergency telephone 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

A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

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

2.2. Label elements

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.1. Substances

Sum formula:	NH4AI(SO4)2 * 12H2O
Molecular weight:	453,33 g/mol



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Hazardous components

CAS No	Chemical name	Chemical name		
	EC No Index No REACH No			
	Classification (Regulation (EC) No 1272/2008)			
7784-26-1	sulfuric acid, aluminum ammonium salt (2:1:1), dodecahydrate			100 %
	232-055-3			

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					
7784-26-1	232-055-3	232-055-3 sulfuric acid, aluminum ammonium salt (2:1:1), dodecahydrate				
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 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 with plenty of 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.

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

Vomiting

Gastrointestinal complaints

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-flammable.

Hazardous combustion products



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In case of fire may be liberated: Sulphur oxides Nitrogen oxides (NOx)

5.3. Advice for firefighters

Remove persons to safety. Do not inhale explosion and combustion gases. In case of fire: Wear self-contained breathing apparatus.

Additional information

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. Suppress gases/vapours/mists with water spray jet.

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. 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. 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

Behälter mit Vorsicht öffnen und handhaben. Persönliche Schutzausrüstung verwenden. Do not breathe dust.

Advice on protection against fire and explosion

No special fire protection measures are necessary.





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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

Keep container tightly closed.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store in a dry place.

Hints on joint storage

No special measures are necessary.

Further information on storage conditions

storage temperature: +15°C - +25°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
7784-26-1	sulfuric acid, aluminum ammonium salt (2:1:1), dodecahydr	ate		-
Worker DNEL,	long-term	inhalation	systemic	71,1 mg/m³
Consumer DNEL, long-term		oral		5,04 mg/kg bw/day

PNEC values

CAS No	Substance		
Environmental compartment Value			
7784-26-1 sulfuric acid, aluminum ammonium salt (2:1:1), dodecahydrate			
Freshwater 0,114 mg/l			
Freshwater (intermittent releases) 0,329 mg/l		0,329 mg/l	
Marine water 0,011 mg/l		0,011 mg/l	
Micro-organisms in sewage treatment plants (STP) 100 mg/l		100 mg/l	

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/face protection.

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: Trade name/designation: KCL 741 Dermatril® L Suitable material: NBR (Nitrile rubber) 0,11mm



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Wearing time with permanent contact: >480min

By short-term hand contact: Trade name/designation: KCL 741 Dermatril® L Suitable 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.

Respiratory protection

Respiratory protection necessary at: dust formation Filtering device with filter or ventilator filtering device of type: : P1

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

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Physical state:	solid	
Colour:	white	
Odour:	odourless	
Odour threshold:	No data available	
Melting point/freezing point:		93 °C
Boiling point or initial boiling point and		280 °C
boiling range:		
Flammability:		No data available
Lower explosion limits:		No data available
Upper explosion limits:		No data available
Flash point:		Х
Auto-ignition temperature:		No data available
Decomposition temperature:		>280 °C
pH-Value (at 25 °C):		2,6 (100 g/l)
Viscosity / kinematic:		No data available
Water solubility:		150 g/L
(at 20 °C)		
Solubility in other solvents		
not determined		
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 (at 20 °C):		1,643 g/cm³
Bulk density:		700-800 kg/m³
Relative vapour density:		No data available
Particle characteristics:		No data available
0. Others information		

9.2. Other information



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Information with regard to physical hazard classes				
Sustaining combustion:	No data available			
Self-ignition temperature				
Solid:	No data available			
Gas:	No data available			
Oxidizing properties				
Not oxidising.				
Other safety characteristics				
Evaporation rate:	No data available			
Solvent separation test:	No data available			
Solvent content:	0			
Solid content:	100%			
Sublimation point:	No data available			
Softening point:	No data available			
Pour point:	No data available			
Viscosity / dynamic:	No data available			
Flow time:	No data available			
Further Information				
No data available				

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Oxidising agent, strong

10.4. Conditions to avoid

none

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

In case of fire:

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.



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CAS No	Chemical name	Chemical name					
	Exposure route	Dose		Species	Source	Method	
7784-26-1	sulfuric acid, aluminu	sulfuric acid, aluminum ammonium salt (2:1:1), dodecahydrate					
	oral	LD50 mg/kg	> 2000	Rat	Study report (2003)	OECD Guideline 423	
	dermal	LD50 mg/kg	> 2000	Rat	Study report (2003)	OECD Guideline 402	

Irritation and corrosivity

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.

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

Other information

No data available

Further information

No data available

SECTION 12: Ecological information

12.1. Toxicity



according to Regulation (EC) No 1907/2006 Aluminium ammonium sulfate dodecahydrate for analysis, ACS

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CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
7784-26-1	sulfuric acid, aluminum ammonium salt (2:1:1), dodecahydrate						
	Acute fish toxicity	LC50	104 mg/l	96 h	Danio rerio	Study report (2003)	OECD Guideline 203
	Acute algae toxicity	ErC50	14 mg/l	72 h	Raphidocelis subcapitata	Study report (2010)	OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l	ca. 600	48 h	Daphnia magna	REACh Registration Dossier	OECD Guideline 202
	Fish toxicity	NOEC mg/l	0,169	60 d	Salvelinus fontinalis	ISBN 9241571942 (1989)	OECD Guideline 210
	Crustacea toxicity	NOEC mg/l	0,076	21 d	Daphnia magna	Study report (2000)	OECD Guideline 211
	Acute bacteria toxicity	(EC50 mg/l)	> 1000	3 h	activated sludge, domestic	Study report (2010)	OECD Guideline 209

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. No data available

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

Do not empty into drains.

Further information

Avoid release to the environment.

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

Wash with plenty of water. Completely emptied packages can be recycled. 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)

<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.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)



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14.5. Environmental hazards ENVIRONMENTALLY HAZARDOUS: No 14.6. Special precautions for user No No information available. No 14.7. Maritime transport in bulk according to IMO instruments No not applicable No SECTION 15: Regulatory information No 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture EU regulatory information Restrictions on use (REACH, annex XVII): Entry 65 National regulatory information Water hazard class (D): 1 - slightly hazardous to water	14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.		
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14.6. Special precautions for user No information available. 14.7. Maritime transport in bulk according to IMO instruments not applicable SECTION 15: Regulatory information 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture EU regulatory information Restrictions on use (REACH, annex XVII): Entry 65 National regulatory information Water hazard class (D): 1 - slightly hazardous to water	14.5. Environmental hazards			
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Water hazard class (D): 1 - slightly hazardous to water	•			
SECTION 16: Other information	. .	1 - slightly hazardous to water		
	SECTION 16: Other information			

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%

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.