

according to Regulation (EC) No 1907/2006

Ammoniaklösung etwa 1,5 N (2,63% w/w) zur Analyse

Revision date: 14.03.2024

Product code: 23752

Page 1 of 11

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

1.1. Product identifier

Ammoniaklösung etwa 1,5 N (2,63% w/w) zur Analyse

UFI:

U7S3-X201-800G-GJEK

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:		REC Day or Night Within USA and Canada: anada: +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

Skin Irrit. 2; H315 Eye Irrit. 2; H319 Aquatic Acute 1; H400 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

H315 H319

Causes skin irritation. Causes serious eye irritation.



according to Regulation (EC) No 1907/2006

Ammoniaklösung etwa 1,5 N (2,63% w/w) zur Analyse

Revision date: 14.03.2024	Product code: 23752	Page 2 of 11
H400	Very toxic to aquatic life.	
H412	Harmful to aquatic life with long lasting effects.	
Precautionary statement	ts	
P280	Wear protective gloves and eye/face protection.	
P302+P352	IF ON SKIN: Wash with plenty of water.	
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.	
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	Chemical name			
	EC No	Index No	REACH No		
	Classification (Regulation (EC) No 1272/2008)				
1336-21-6	Ammonia			1 - < 5 %	
	215-647-6	007-001-01-2	01-2119488876-14		
	Skin Corr. 1B, Aquatic	Acute 1, Aquatic Chronic 2; H314 H40	0 H411		

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

Specific Co	nc. Limits, M-fac	ctors and ATE	
CAS No	EC No	Chemical name	Quantity
	Specific Conc.	Limits, M-factors and ATE	
1336-21-6	215-647-6	Ammonia	1 - < 5 %
	inhalation: LC	50 = 4230 mg/l (vapours); oral: LD50 = 350 mg/kg STOT SE 3; H335: >= 5 - 100 l: H400: M=10	

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. Call a physician immediately.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

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



according to Regulation (EC) No 1907/2006

Ammoniaklösung etwa 1,5 N (2,63% w/w) zur Analyse

Revision date: 14.03.2024

Product code: 23752

Page 3 of 11

Protect uninjured eye.

After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Do not allow a neutralisation agent to be drunk. Call a physician immediately.

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

Irritant Cough Dyspnoea Risk of serious damage to eyes.

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: Nitrogen oxides (NOx)

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 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.



according to Regulation (EC) No 1907/2006

Ammoniaklösung etwa 1,5 N (2,63% w/w) zur Analyse

Revision date: 14.03.2024

Product code: 23752

Page 4 of 11

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

Read label before use. Handle and open container with care. When using do not eat, drink, smoke, sniff. Use personal protection equipment. Use extractor hood (laboratory). Provide adequate ventilation. Do not breathe vapour/aerosol. Avoid contact with skin, eyes and clothes.

Advice on protection against fire and explosion

Usual measures for fire prevention.

Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs. 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. Avoid: aerosol or mist formation Do not breathe vapour/aerosol.

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

Keep container tightly closed.

Hints on joint storage

No data available

Further information on storage conditions

Keep away from heat. Protect from sunlight.

7.3. Specific end use(s)

Laboratory chemicals

SECTION 8: Exposure controls/personal protection

8.1. Control parameters



according to Regulation (EC) No 1907/2006

Ammoniaklösung etwa 1,5 N (2,63% w/w) zur Analyse

Revision date: 14.03.2024

Product code: 23752

Page 5 of 11

Occupational exposure limits

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
7664-41-7	Ammonia, anhydrous	20	14		TWA (8 h)	
		50	36		STEL (15 min)	

DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
1336-21-6	Ammonia		·	
Worker DNEL,	long-term	inhalation	systemic	47,6 mg/m³
Worker DNEL,	acute	inhalation	systemic	47,6 mg/m³
Worker DNEL,	long-term	inhalation	local	14 mg/m³
Worker DNEL,	acute	inhalation	local	36 mg/m³
Worker DNEL,	long-term	dermal	systemic	6,8 mg/kg bw/day
Worker DNEL,	acute	dermal	systemic	6,8 mg/kg bw/day
Consumer DNE	EL, long-term	inhalation	systemic	23,8 mg/m³
Consumer DNE	EL, acute	inhalation	systemic	23,8 mg/m³
Consumer DNE	EL, long-term	inhalation	local	2,8 mg/m³
Consumer DNE	EL, acute	inhalation	local	7,2 mg/m³
Consumer DNE	EL, long-term	dermal	systemic	68 mg/kg bw/day
Consumer DNE	EL, acute	dermal	systemic	68 mg/kg bw/day
Consumer DNE	EL, long-term	oral	systemic	6,8 mg/kg bw/day
Consumer DNE	EL, acute	oral	systemic	6,8 mg/kg bw/day

PNEC values

CAS No	Substance				
Environmental	Value				
1336-21-6 Ammonia					
Freshwater 0,001 mg/l					
Freshwater (inte	0,007 mg/l				
Marine water	Marine water				

8.2. Exposure controls

Appropriate engineering controls

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

If handled uncovered, arrangements with local exhaust ventilation have to be used.

Individual protection measures, such as personal protective equipment

Eye/face protection

goggles

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.



according to Regulation (EC) No 1907/2006

Ammoniaklösung etwa 1,5 N (2,63% w/w) zur Analyse

Revision date: 14.03.2024

Product code: 23752

Page 6 of 11

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 730 Camatril® Velours Recommended material: NBR (Nitrile rubber) 0,4 mm Wearing time with permanent contact: > 480 min

By short-term hand contact

Trade name/designation:KCL 741 Dermatril® LRecommended material:NBR (Nitrile rubber) 0,11 mmWearing 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

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

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: Odour threshold:	Liquid colourless stinging No data available	
Melting point/freezing point:		No data available
Boiling point or initial boiling point and boiling range:		No data available
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 (at 20 °C):		alkaline
Viscosity / kinematic:		No data available
Water solubility:		completely miscible
Solubility in other solvents No data available		
Partition coefficient n-octanol/water:		No data available
Vapour pressure:		No data available
(at 20 °C)		
Vapour pressure:		No data available



according to Regulation (EC) No 1907/2006

an analyti chem brand	according to Regulation (EC) No 1907	7/2006	
Δr	nmoniaklösung etwa 1,5 N (2,63% w/w	/) zur Analyse	
Revision date: 14.03.2024	Product code: 23752	/ Zui Analyse	Page 7 of 11
Density:	No	data available	
Bulk density:		data available	
Relative vapour density:		data available	
9.2. Other information			
	ical bazard alacana		
Information with regard to phys Explosive properties	ical hazaru classes		
No data available			
Sustaining combustion:	No	data available	
Self-ignition temperature			
Solid:	No	data available	
Gas:		data available	
Oxidizing properties			
No data available			
Other safety characteristics	Na		
Evaporation rate:		data available	
Solvent separation test:	NO	data available	
Solvent content:		0	
Solid content:	Na	0	
Sublimation point: Softening point:		data available data available	
Pour point:		data available	
No data available:			
Viscosity / dynamic:	No	data available	
Flow time:		data available	
Further Information			
No data available			
SECTION 10: Stability and react	tivity		
10.1. Reactivity			
No data available			
10.2. Chemical stability			
No data available			
10.3. Possibility of hazardous reac	<u>tions</u>		
Acid			
10.4. Conditions to avoid			
Heat			
10.5. Incompatible materials			
No data available			
10.6. Hazardous decomposition pro	oducts		
In case of fire may be liberate			
SECTION 5: Firefighting mea			
Further information No data available			
SECTION 11: Toxicological info	rmation		

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

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



according to Regulation (EC) No 1907/2006

Ammoniaklösung etwa 1,5 N (2,63% w/w) zur Analyse

Revision date: 14.03.2024

Product code: 23752

Page 8 of 11

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	Chemical name								
	Exposure route	Dose		Species	Source	Method				
1336-21-6	Ammonia									
	oral	LD50 mg/kg	350	Rat	Journal of Industrial Hygiene and Toxico	OECD Guideline 401				
	inhalation (1 h) vapour	LC50	4230 mg/l	Mouse		Assessment of acute inhalation toxicity				

Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

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

There are no data available on the preparation/mixture itself.

Additional information on tests

There are no data available on the preparation/mixture itself.

Practical experience

There are no data available on the preparation/mixture itself.

11.2. Information on other hazards

Other information Irritant Cough Dyspnoea Risk of serious damage to eyes.

SECTION 12: Ecological information

12.1. Toxicity

Very toxic to aquatic life.

Harmful to aquatic life with long lasting effects.



according to Regulation (EC) No 1907/2006

Ammoniaklösung etwa 1,5 N (2,63% w/w) zur Analyse

Revision date: 14.03.2024

Product code: 23752

Page 9 of 11

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
1336-21-6	Ammonia						
	Acute fish toxicity	LC50 3,4 mg/l	0,75 -	96 h	Pimephales promelas	Trans Amer Fish Soc; 112 (5). 1983. 705-	Assessment of acute toxicity in the fath
	Acute crustacea toxicity	EC50	101 mg/l	48 h	Daphnia magna	Environ. Toxicol. Chem. 5: 443-447 (1986	other: ASTM E729-80
	Fish toxicity	NOEC	1,2 mg/l		Oncorhynchus gorbuscha	Fish. Bull. 78(3): 641-648 (1980)	OECD Guideline 210

12.2. Persistence and degradability

Not readily biodegradable (according to OECD criteria)

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
1336-21-6	Ammonia	-1,38

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.

Further information

Do not allow to enter into surface water or drains. 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. Send to a physico-chemical treatment facility under observation of official regulations. Do not allow to enter into surface water or drains.

Contaminated packaging

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

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Dispose of waste according to "Kreislaufwirtschafts- und Abfallgesetz (KrW-/AbfG)".

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:

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.

Inland waterways transport (ADN)



according to Regulation (EC) No 1907/2006

Ammoniaklösung etwa 1,5 N (2,63% w/w) zur Analyse

Ammoniaklösung etwa 1,5 N (2,63% w/w) zur Analyse		
Revision date: 14.03.2024	Product code: 23752	Page 10 of 11
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.	
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 tr	ansport regulation.	
14.7. Maritime transport in bulk according	to IMO instruments	
No dangerous good in sense of this tr	ransport regulation.	
SECTION 15: Regulatory information		
15.1. Safety, health and environmental reg	ulations/legislation specific for the substance or mixture	
EU regulatory information		
Restrictions on use (REACH, annex XVII):	
Entry 3		
Information according to Directive	E1 Hazardous to the Aquatic Environment	
2012/18/EU (SEVESO III):	· · · · · · · · · · · · · · · · · ·	
National regulatory information		
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juv	venile
	work protection guideline' (94/33/EC).	
Water hazard class (D):	2 - obviously hazardous to water	
SECTION 16: Other information		

Changes

This data sheet contains changes from the previous version in section(s): 1,12.

Abbreviations and acronyms

Skin Corr: Skin corrosion Skin Irrit: Skin irritation 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
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
Aquatic Acute 1; H400	Calculation method
Aquatic Chronic 3; H412	Calculation method



according to Regulation (EC) No 1907/2006

Ammoniaklösung etwa 1,5 N (2,63% w/w) zur Analyse

Revision date: 14.03.2024

Product code: 23752

Page 11 of 11

Relevant H and EUH statements (number and full text)

H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H411	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 relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)