

Trade name: Ammonii hydroxidi sol 10%

Substance number: 208121

Version: 6 / CH

Date revised: 18.08.2025

Replaces Version: 5 / CH

Print date: 18.08.25

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

1.1. Product identifier

Ammonii hydroxidi sol 10%

Item No. 20812100

Registration no.

EC No.: 215-647-6

CAS No. 1336-21-6

Substance / product identification

UFI KM2A-WYSA-4W1H-UNU8

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

Use of the substance/preparation

Manufacture of pharmaceutical products, Manufacture of cosmetics

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Hänseler AG
Industriestrasse 35
9100 Herisau

Telephone no. 0041 (0)71 353 58 58

E-mail address of
person responsible
for this SDS sdb@haenseler.ch

1.4. Emergency telephone number

Switzerland :145 / Abroad +41 (0)44 251 51 51

SECTION 2: Hazards identification ***

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Skin Corr. 1B H314

Eye Dam. 1 H318

STOT SE 3 H335

Aquatic Acute 1 H400

Aquatic Chronic 3 H412

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal word

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Danger

Hazard statements

H314 Causes severe skin burns and eye damage.
 H335 May cause respiratory irritation.
 H400 Very toxic to aquatic life.
 H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CENTER or doctor.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains ammonia%

2.3. Other hazards

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

SECTION 3: Composition/information on ingredients *****Hazardous ingredients *******ammonia%**

CAS No.	1336-21-6			
EINECS no.	215-647-6			
Registration no.	01-2119488876-14-XXXX			
Concentration	>= 10	<	14	%
Classification (Regulation (EC) No. 1272/2008)				
	Skin Corr. 1B			H314
	Eye Dam. 1			H318
	STOT SE 3			H335
	Aquatic Acute 1			H400
	Aquatic Chronic 2			H411

Concentration limits (Regulation (EC) No. 1272/2008)

	STOT SE 3	H335	>= 5	
	Aquatic Acute 1	H400	M = 10	
ATE	oral		43	mg/kg

Additional remarks:

CLP Regulation (EC) No 1272/2008, Annex VI, Note B

Further ingredients *****water**

CAS No.	7732-18-5			
EINECS no.	231-791-2			
Concentration		>=	50	%
Advice: [4]				

Note

[4] Voluntary information

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SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Adhere to personal protective measures when giving first aid

After inhalation

Remove the casualty into fresh air and keep him calm. Irregular breathing/no breathing: artificial respiration. Seek medical advice immediately.

After skin contact

Remove contaminated, soaked clothing immediately and dispose of safely. Wash off immediately with soap and water and rinse well. Seek medical advice immediately.

After eye contact

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Seek medical advice immediately.

After ingestion

Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth thoroughly with water. Seek medical advice immediately.

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

Irritation of respiratory organs, Coughing, Shortness of breath, Unconsciousness, Vomiting, Nausea, Convulsions, Death, Danger of blindness.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Extinguishing measures to suit surroundings

Non suitable extinguishing media

not applicable

5.2. Special hazards arising from the substance or mixture

In the event of fire the following can be released: Nitrogen oxides (NOx)

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Use self-contained breathing apparatus. Use personal protective clothing.

Other information

Cool endangered containers with water spray jet. Suppress gases/vapours/mists with water spray jet. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Do not inhale vapours. Ensure adequate ventilation. Remove persons to safety.

6.2. Environmental precautions

Do not empty into drains.

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite,

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diatomaceous earth and place in container for disposal according to local regulations (see section 13).
Send in suitable containers for recovery or disposal.

6.4. Reference to other sections

Information regarding waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid contact with skin and eyes. Avoid inhaling dusts/ billows/ steams.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed and dry. Keep container tightly closed in a well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Storage classes

Storage class according to TRGS 510	8B	Non-combustible corrosive hazardous substances
Storage category (Switzerland)	8	Caustic and corrosive substances

Further information on storage conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Observe label precautions.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Derived No/Minimal Effect Levels (DNEL/DMEL)

ammonia%

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Acute	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	6.8	mg/kg

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	6.8	mg/kg

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Acute	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	47.6	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Acute	
Route of exposure	inhalative	
Mode of action	Local effects	

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Concentration	36	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	47.6	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	14	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Acute	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	68	mg/kg
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	68	mg/kg
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Acute	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	23.8	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Acute	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	7.2	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	23.8	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	2.8	mg/m ³

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Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Acute	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	6.8	mg/kg

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	6.8	mg/kg

Predicted No Effect Concentration (PNEC)**ammonia%**

Type of value	PNEC	
Type	Freshwater	
Concentration	0.0011	mg/l

Type of value	PNEC	
Type	Saltwater	
Concentration	0.00011	mg/l

8.2. Exposure controls**General protective and hygiene measures**

Observe the usual precautions for handling chemicals. Wash hands before breaks and after work.

Respiratory protection

necessary; Full mask, filter K

Hand protection

The glove material must be sufficient impermeable and resistant to the substance. Check the tightness before wear. Gloves should be well cleaned before being removed, then stored in a well ventilated location.

Appropriate Material	Butyl rubber - Butyl	
Material thickness	0.7	mm
Breakthrough time	> 480	min
Appropriate Material	nitrile rubber - NBR	
Material thickness	0.40	mm
Breakthrough time	> 240	min

Eye protection

Tightly fitting safety glasses

Body protection

Protective clothing

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state liquid, clear

Colour colourless

Melting point

Remarks No data available

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Boiling point or initial boiling point and boiling range

Remarks No data available

Upper and lower explosive limits

Remarks No data available

Flash point

Value °C

Remarks Not applicable

pH value

Remarks No data available

Partition coefficient n-octanol/water (log value)

Reference substance ammonia ...%

Remarks No data available

Vapour pressure

Remarks No data available

Density and/or relative densityValue 0.957 to 0.961 g/cm³

Remarks Relative Density according specification

9.2. Other information**Odour threshold**

Remarks No data available

Solubility in water

Remarks No data available

Minimum ignition energy

Remarks No data available

Other information

The product is not dangerous for explosions.

SECTION 10: Stability and reactivity**10.1. Reactivity**

Risk of explosion with: Oxidising agents, Mercury, oxygen, Silvercompounds, hydrogen peroxide (H₂O₂), Halogens, Acids, Sodium hypochlorite, Salts of heavy metals, Reactions with reducing agents, heavy metals. Risk of ignition or formation of inflammable gases or vapours with: Boron, phosphorus, Reaction with nitric acid.

10.2. Chemical stability

Vapours can form an explosive mixture with air.

10.3. Possibility of hazardous reactions

Vapours can form an explosive mixture with air.

10.4. Conditions to avoid

Protect from heat/overheating.

10.5. Incompatible materials

aluminium (Al), lead, Silvercompounds, Zinc, copper (Cu), Metals

10.6. Hazardous decomposition products

Toxic gases/vapours

SECTION 11: Toxicological information

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11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**Acute oral toxicity**

ATE	358.452	mg/kg
	8	
Method	calculated value (Regulation (EC) No. 1272/2008)	

Acute oral toxicity (Components)**ammonia%**

Species	rat	
LD50	350	mg/kg
Source	GESTIS-Stoffdatenbank	

ammonia%

Species	Human	
LDLo	43	mg/kg

Acute dermal toxicity (Components)**ammonia%**

Remarks	No data available.
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Acute inhalative toxicity (Components)**ammonia%**

Remarks	No data available.
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Skin corrosion/irritation

Remarks	No data available.
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Skin corrosion/irritation (Components)**ammonia%**

Species	rabbit
evaluation	strongly irritant
Method	OECD 404

Serious eye damage/irritation

Remarks	No data available.
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Serious eye damage/irritation (Components)**ammonia%**

Species	rabbit
evaluation	strongly irritant
Remarks	Influence of the product with the eyes can lead to blindness.

Sensitization

Remarks	No data available
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Sensitization (Components)**ammonia%**

Species	guinea pig
evaluation	non-sensitizing

Subacute, subchronic, chronic toxicity (Components)**ammonia%**

Route of exposure	inhalative	
Species	rat	
NOAEL	0.035	mg/l
Duration of exposure	50	Days

Mutagenicity

Remarks	No data available
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Mutagenicity (Components)**ammonia%**

Species	mouse
evaluation	No experimental indications on genotoxicity in vivo found.
Method	OECD 474

ammonia%

Species	Salmonella typhimurium
evaluation	No experimental information on genotoxicity in vitro available.
Method	Ames test

Reproductive toxicity

Remarks	No data available
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Reproduction toxicity (Components)**ammonia%**

Route of exposure	oral
Species	rat
Dose	408 mg/kg
evaluation	No negative effects
Method	OECD 422

Carcinogenicity

Remarks	No data available
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Carcinogenicity (Components)**ammonia%**

Route of exposure	oral
Species	rat
Dose	67 mg/kg
Duration of exposure	104 Weeks
Method	OECD 453
Remarks	negative

Specific Target Organ Toxicity (STOT)

Remarks	No data available
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Specific Target Organ Toxicity (STOT) (Components)**ammonia%****Single exposure**

evaluation	May cause respiratory irritation.
	Route of exposure inhalative

ammonia%**Repeated exposure**

Source	Nicht eingestuft, basierend auf der Berechnungsmethode der CLP Verordnung.
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11.2 Information on other hazards**Endocrine disrupting properties with respect to humans**

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

SECTION 12: Ecological information**12.1. Toxicity****General information**

	No data available
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Fish toxicity

Remarks No data available.

Fish toxicity (Components)

ammonia%

Species rainbow trout (Oncorhynchus mykiss)
LC50 0.89 mg/l
Duration of exposure 96 h

ammonia%

Species rainbow trout (Oncorhynchus mykiss)
LOEC 0.022 mg/l
Duration of exposure 73 d
Method Flow test; FIFRA Guideline 72-1

ammonia%

Species Ictalurus punctatus
NOEC 0.06 mg/l
Duration of exposure 27 d
Method Flow test; FIFRA Guideline 72-1

ammonia%

Species Fathead minnow (Pimephales promelas)
LC50 0.068 mg/l
Duration of exposure 96 h
Method Flow test; FIFRA Guideline 72-1

ammonia%

Species Ictalurus punctatus
NOEC 0.048 mg/l
Duration of exposure 31 d
Method OECD 215

Daphnia toxicity (Components)

ammonia%

Species Daphnia magna
LC50 101 mg/l
Duration of exposure 48 h

ammonia%

Species Daphnia magna
NOEC 0.79 mg/l
Duration of exposure 96 h

ammonia%

Species Daphnia magna
NOEC 0.42 mg/l
Duration of exposure 21 d

ammonia%

Species Daphnia magna
LC50 4.07 mg/l
Duration of exposure 96 h
Method US-EPA

ammonia%

Species Daphnia magna
NOEC 0.79 mg/l
Duration of exposure 96 h
Method US-EPA

Algae toxicity (Components)

ammonia%

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Species	Chlorella vulgaris	
EC50	2700	mg/l
Duration of exposure	18	d

Bacteria toxicity (Components)

ammonia%

Remarks No data available.

12.2. Persistence and degradability**Biodegradability**

Remarks No data available.

Biodegradability (Components)

ammonia%

evaluation Readily biodegradable

Ready degradability (Components)

ammonia%

12.3. Bioaccumulative potential**Partition coefficient n-octanol/water (log value)**

Reference substance ammonia%

Remarks No data available

12.4. Mobility in soil**General information**

No data available

Mobility in soil (Components)

ammonia%

Adsorbs on soil.

12.5. Results of PBT and vPvB assessment**General information**

There is no data available on the product apart from the information given in this subsection.

Results of PBT and vPvB assessment

The product contains no PBT substances

The product contains no vPvB substances.

12.6 Endocrine disrupting properties**Endocrine disrupting properties with respect to the environment**

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects**General information / ecology**

Very toxic for aquatic organisms.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations for the product**

Disposal in compliance with local and national regulations.

Disposal recommendations for packaging

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Dispose of as unused product.

SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	E		
14.1. UN number	2672	2672	2672
14.2. UN proper shipping name	AMMONIA SOLUTION	AMMONIA SOLUTION	AMMONIA SOLUTION
14.3. Transport hazard class(es)	8	8	8
Label			
14.4. Packing group	III	III	III
Limited Quantity	5 l		
Transport category	3		

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Water Hazard Class (Germany)**

Water Hazard Class (Germany) WGK 2

Remarks Derivation of WGK according to Annex 1 No. 5.2 AwSV

SECTION 16: Other information**Hazard statements listed in Chapter 3**

H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H335 May cause respiratory 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.

CLP categories listed in Chapter 3

Aquatic Acute 1 Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 2 Hazardous to the aquatic environment, chronic, Category 2
Aquatic Chronic 3 Hazardous to the aquatic environment, chronic, Category 3
Eye Dam. 1 Serious eye damage, Category 1
Skin Corr. 1B Skin corrosion, Category 1B
STOT SE 3 Specific target organ toxicity - single exposure, Category 3

Supplemental information

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Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.