

Trade name: Ammonii hydroxidi sol 25%

Substance number: 208260

Version: 3 / CH

Date revised: 26.05.2025

Replaces Version: 2 / CH

Print date: 26.05.25

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

1.1. Product identifier

Ammonii hydroxidi sol 25%

Item No. 20826000

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 sdb@haenseler.ch

person responsible
for this SDS

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 2 H411

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

Danger

Hazard statements

H314

Causes severe skin burns and eye damage.

H335

May cause respiratory irritation.

H410

Very toxic to aquatic life with long lasting effects.

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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	>= 25 < 50 %
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

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

Ensure supply of fresh air. Summon a doctor immediately.

After skin contact

Remove contaminated clothing. After contact with skin, wash immediately with plenty of water. Summon a doctor immediately.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Remove contact lenses. Summon a doctor immediately.

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After ingestion

Drink water in small gulps. Never give anything by mouth to an unconscious person. Do not induce vomiting. No trials on neutralisation.

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

The product is not combustible. Forms explosive mixture with air are possible. In the event of fire the following can be released: Nitrogen oxides (NO_x)

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**

Do not inhale vapours. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

Do not empty into drains.

6.3. Methods and material for containment and cleaning up

Take up with absorbent material (eg sand, kieselguhr, universal binder). When picked up, treat material as prescribed under Section 13 "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, eyes and clothing.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Do not use metal containers and metal pinings.

Storage classes

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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	
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	

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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

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%

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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

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
Colour	colourless
Odour	pungent
Melting point	
Value	-57.5 °C
Boiling point or initial boiling point and boiling range	
Value	37.7 °C
Pressure	1013 hPa
Upper and lower explosive limits	
Lower explosion limit	15.4 %(V)
Upper explosion limit	33.6 %(V)
Flash point	
Value	°C
Remarks	Not applicable
pH value	
Temperature	20 °C
Remarks	strongly alkaline
Partition coefficient n-octanol/water (log value)	
log Pow	-1.38
Vapour pressure	
Value	483 hPa

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Temperature	20	°C
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Density and/or relative density

Value	0.903		g/cm ³
Temperature	20	°C	

9.2. Other information**Odour threshold**

Value	0.02	to	70.7	µg/l
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Solubility in water

Temperature	20	°C
Remarks	soluble	

Minimum ignition energy

Minimum ignition energy	380	to	680	MJ
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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**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity**

ATE	143.381	mg/kg
	1	

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

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Acute dermal toxicity (Components)

ammonia%

Remarks No data available.

Acute inhalative toxicity (Components)

ammonia%

Remarks No data available.

Skin corrosion/irritationSpecies rabbit
evaluation strongly irritant**Skin corrosion/irritation (Components)**

ammonia%

Species rabbit
evaluation strongly irritant
Method OECD 404**Serious eye damage/irritation**evaluation strongly irritant
Remarks Influence of the product with the eyes can lead to blindness.
Source RTECS
Source 29%**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

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

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**

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Remarks No data available

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

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

Specific Target Organ Toxicity (STOT) (Components)**ammonia%****Single exposure**

evaluation	May cause respiratory irritation. Route of exposure inhalative
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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

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

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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%**

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

Bacteria toxicity (Components)**ammonia%**

Remarks	No data available.
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12.2. Persistence and degradability**Biodegradability**

evaluation	not readily degradable
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Biodegradability (Components)

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ammonia%

evaluation

Readily biodegradable

Ready degradability (Components)

ammonia%

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water (log value)

log Pow

-1.38

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.

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

Dispose of as unused product.

SECTION 14: Transport information

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	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		
14.5. Environmental hazards	 ENVIRONMENTALLY HAZARDOUS	Marine Pollutant 	 ENVIRONMENTALLY HAZARDOUS

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.

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 2 Hazardous to the aquatic environment, chronic, Category 2
 Eye Dam. 1 Serious eye damage, Category 1

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Skin Corr. 1B
STOT SE 3

Skin corrosion, Category 1B
Specific target organ toxicity - single exposure, Category 3

Supplemental information

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.