

Trade name: Ammonii hydroxidi sol 25%

Substance number: 208375

Version: 6 / CH

Date revised: 11.07.2025

Replaces Version: 5 / CH

Print date: 11.07.25

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

1.1. Product identifier

Ammonii hydroxidi sol 25%

Item No. 20837500

Substance / product identification

UFI HGJD-U1WX-R00F-89Y6

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 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

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

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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 | >= 20 < 25 % |
| 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 350 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**

Remove affected person from danger area, lay him down. Take affected person to fresh air. Do not leave casualty unattended. Remove contaminated clothing immediately and dispose of safely. Take medical treatment.

After inhalation

Irregular breathing/no breathing: artificial respiration. Breathing with the help of a ventilator bag or ventilator. If the patient is likely to become unconscious, place and transport in stable sideways position. Summon a doctor immediately.

After skin contact

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.). Shield unaffected eye. Summon a

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doctor immediately.

After ingestion

Do not induce vomiting - aspiration hazard. Never give anything by mouth to an unconscious person.
Rinse mouth thoroughly with water. Summon a doctor immediately.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Carbon dioxide, Dry powder, Water spray jet, Extinguish greater fire with water spray or alcohol-resistant foam.

5.2. Special hazards arising from the substance or mixture

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. Wear full protective suit.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep away unprotected persons.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

Pick up with absorbent material (eg sand, kieselgur, acid binder, universal binder). When picked up, treat material as prescribed under Section 13 "Disposal".

6.4. Reference to other sections

Information regarding Safe handling, see Section 7. Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Keep container tightly closed. Provide good ventilation of working area (local exhaust ventilation if necessary).

Advice on protection against fire and explosion

The product is not combustible.

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

Keep in original packaging, tightly closed. Provide alkali-resistant floor.

Hints on storage assembly

Do not store with acids.

Storage classes

Storage class according to TRGS 510

8B

Non-combustible corrosive hazardous substances

Storage category (Switzerland)

8

Caustic and corrosive substances

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Further information on storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place. Protect from direct sunlight.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Other information**

Contains no substances with occupational exposure limit values.

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 | |
| Duration of exposure | Acute | |

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| | | |
|-------------------|------------------|-------|
| 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%**

Type of value PNEC

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| | | |
|---------------|------------|------|
| 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

Keep away from food-stuffs, beverages and feed-stocks. Remove contaminated, soaked clothing immediately and dispose of safely. Wash hands before breaks and after work. Avoid contact with skin and eyes.

Respiratory protection

Self-contained breathing apparatus.

Hand protection

Protective gloves

Appropriate Material

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

0.5 mm

Breakthrough time

>= 8 h

Appropriate Material

Fluoro carbon rubber - FKM

Material thickness

0.4 mm

Breakthrough time

>= 8 h

Eye protection

Tightly fitting safety glasses

Body protection

impermeable protective overalls

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

liquid

Colour

colourless to slightly yellow

Odour

of ammonia

Freezing point

Value

appr. -44

°C

Boiling point or initial boiling point and boiling range

Value

appr. 44

°C

Upper and lower explosive limits

Lower explosion limit

27

%(V)

Upper explosion limit

16

%(V)

Flash point

Value

°C

Remarks

Not applicable

pH value

Value

12

to

13

Vapour pressure

Value

358

hPa

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| | | |
|-------------|----|----|
| Temperature | 20 | °C |
|-------------|----|----|

Density and/or relative density

| | | |
|-------|------|-------------------|
| Value | 0.90 | g/cm ³ |
|-------|------|-------------------|

9.2. Other information**Solubility in water**

| | |
|---------|---------------------|
| Remarks | Completely miscible |
|---------|---------------------|

Auto-ignition temperature

| | | |
|-------|-----|----|
| Value | 651 | °C |
|-------|-----|----|

Explosive properties

| | |
|------------|----|
| evaluation | no |
|------------|----|

Oxidising properties

| | |
|------------|------------|
| evaluation | None known |
|------------|------------|

Other information

The product is not dangerous for explosions.

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

No decomposition if stored and applied as directed.

10.2. Chemical stability

No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

No decomposition if stored and applied as directed.

10.4. Conditions to avoid

Heat

10.5. Incompatible materials

Reactions with strong acids. Metals, Zinc, Aluminium

10.6. Hazardous decomposition products

Ammonia

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity**

| | | |
|-----|----------|-------|
| ATE | 1'400.56 | mg/kg |
| | 02 | |

| | |
|--------|--|
| 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)

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ammonia%

Remarks No data available.

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

Remarks No data available.

Skin corrosion/irritation

Remarks Corrosive action on the skin and mucous membrane.

Skin corrosion/irritation (Components)**ammonia%**

Species rabbit
 evaluation strongly irritant
 Method OECD 404

Serious eye damage/irritation

evaluation strongly corrosive

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 sensitization effect known.

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 (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

Reproduction toxicity (Components)**ammonia%**

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

Carcinogenicity (Components)

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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) (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. |
|--------|--|

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.

Experience in practice

After Swallowing: burns in mouth, throat, oesophagus and gastrointetinal tract. Risk of perforation in the oesophagus and stomach.

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

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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. |
|---------|--------------------|

12.2. Persistence and degradability**Biodegradability (Components)****ammonia%**

| | |
|------------|-----------------------|
| evaluation | Readily biodegradable |
|------------|-----------------------|

Ready degradability (Components)**ammonia%****12.4. Mobility in soil****Mobility in soil (Components)****ammonia%**

| |
|------------------|
| Adsorbs on soil. |
|------------------|

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

| |
|--|
| The product contains no PBT substances |
| The product contains no vPvB substances. |

12.6 Endocrine disrupting properties

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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**

Product is hazardous to water. Do not allow it to reach ground water, water bodies or sewage system.
Hazard for drinking water supplies.

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

EWC waste code

No not dispose with rubbish.




EWC waste code

Should not be released into the sanitary sewer system.

Disposal recommendations for packaging

Disposal in compliance with local and national regulations.

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

WGK 2

(Germany)

Remarks

Derivation of WGK according to Annex 1 No. 5.2 AwSV

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15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

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

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.