

Trade name: Ammonii hydroxidi sol 25%

Substance number: 208375 Version: 5 / CH Date revised: 31.01.2023

Replaces Version: 4 / CH Print date: 31.01.23

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

1.1. Product identifier

Ammonii hydroxidi sol 25%

Item No. 20837500

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 ***

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.



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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 >= 5Aquatic 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 doctor immediately.

After ingestion



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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 (NOx)

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

Further information on storage conditions

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



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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/m³

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/m³

Type of value Derived No Effect Level (DNEL)

Reference group Worker

Duration of exposure Long term

Route of exposure inhalative

Mode of action Systemic ef

Mode of action Systemic effects

Concentration 47.6 mg/m³

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/m³

Type of value Derived No Effect Level (DNEL)

Reference group Consumer
Duration of exposure Acute
Route of exposure dermal

Mode of action Systemic effects



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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/m³

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Consumer

Acute

inhalative

Local effects

Concentration 7.2 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Consumer

Long term
inhalative

Systemic effects

Concentration 23.8 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Consontration

Consont

Concentration 2.8 mg/m³

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

Concentration 0.0011 mg/l



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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

Temperature 20 °C



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Density and/or relative density

Value 0.90 g/cm³

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

Acute dermal toxicity (Components)

ammonia%

Remarks No data available.

Acute inhalative toxicity (Components)

ammonia%



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Remarks No data available.

Skin corrosion/irritation

Remarks Corrosive action on the skin and mucous membrane.

Skin corrosion/irritation (Components)

ammonia%

Species rabbit evaluation corrosive Method OECD 404

Serious eye damage/irritation

evaluation strongly corrosive

Serious eye damage/irritation (Components)

ammonia%

Species rabbit

evaluation irritant - risk of serious damage to eyes

Sensitization

Remarks No sensitation effect known.

Sensitization (Components)

ammonia%

Species guinea pig evaluation non-sensitizing

Subacute, subchronic, chronic toxicity (Components)

ammonia%

Remarks No data available.

Mutagenicity (Components)

ammonia%

evaluation No experimental indications on genotoxicity in vivo found.

ammonia%

evaluation No experimental information on genotoxicity in vitro available.

Method Ames test

Reproduction toxicity (Components)

ammonia%

Remarks Indications of toxic effects are available from reproduction studies in

animals.

Carcinogenicity (Components)

ammonia%

Remarks No evidence available on carcinogenicity.

Specific Target Organ Toxicity (STOT) (Components)

ammonia%

Remarks No data available

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.



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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

Daphnia toxicity (Components)

ammonia%

Species Daphnia magna

LC50 101 mg/l

Duration of exposure 48 h

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

Endocrine disrupting properties with respect to the envrionment

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.



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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	51		
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

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.



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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.