

Trade name: Ammonii carbonas

Substance number: 060976

Version: 4 / CH

Date revised: 17.12.2018

Replaces Version: 3 / CH

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

1.1. Product identifier

Ammonii carbonas

Item No. 06097600

Substance / product identification

CAS-No. 10361-29-2

EINECS-No. 233-786-0

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

Use of the substance/preparation

Manufacture of pharmaceutical products, 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)

Acute Tox. 4 H302

Eye Dam. 1 H318

Skin Irrit. 2 H315

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

H302

Harmful if swallowed.

H315

Causes skin irritation.

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H318 Causes serious eye damage.

Precautionary statements

P280.1 Wear Eye protection/face protection.
 P302+P352 IF ON SKIN: Wash with plenty of soap and 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.
 P313 Get medical advice/attention.
 P501.3 Disposal in compliance with local and national regulations.

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

contains ammonium carbamate; ammonium hydrogencarbonate

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Hazardous ingredients****ammonium carbamate**

| | | | |
|--|---------------|--|------|
| CAS No. | 1111-78-0 | | |
| EINECS no. | 214-185-2 | | |
| Concentration | >= 50 | | % |
| Classification (Regulation (EC) No. 1272/2008) | | | |
| | Acute Tox. 4 | | H302 |
| | Skin Irrit. 2 | | H315 |
| | Eye Dam. 1 | | H318 |

ammonium hydrogencarbonate

| | | | |
|--|-----------------------|--|------|
| CAS No. | 1066-33-7 | | |
| EINECS no. | 213-911-5 | | |
| Registration no. | 01-2119486970-26-0005 | | |
| Concentration | >= 50 | | % |
| Classification (Regulation (EC) No. 1272/2008) | | | |
| | Acute Tox. 4 | | H302 |

SECTION 4: First aid measures**4.1. Description of first aid measures****After inhalation**

Ensure supply of fresh air.

After skin contact

Wash off immediately with soap and water. Remove contaminated, soaked clothing immediately and dispose of safely.

After eye contact

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

After ingestion

Let plenty of water be drunk in small gulps. Summon a doctor immediately.

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

Irritation of mucosa, Irritation of respiratory organs, Nausea, Vomiting, Diarrhoea, Systemic effects: CNS Disturbance, Convulsions, Narcosis

SECTION 5: Firefighting measures

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5.1. Extinguishing media

Suitable extinguishing media

Extinguishing measures to suit surroundings

5.2. Special hazards arising from the substance or mixture

The product is not combustible. If a fire breaks out nearby evolution of dangerous gases possible. 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.

Other information

Suppress vapours with water spray jet. Do not discharge into surface waters/groundwater.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Do not inhale dust. Ensure supply of fresh air.

6.2. Environmental precautions

Do not empty into drains.

6.3. Methods and material for containment and cleaning up

To pick up dry. Dampen, pick up mechanically and dispose of. Avoid raising dust.

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

Provide good ventilation of working area (local exhaust ventilation if necessary). Avoid dust formation. Avoid contact with skin, eyes and clothing.

7.2. Conditions for safe storage, including any incompatibilities

Recommended storage temperature

Value 15 - 25 °C

Further information on storage conditions

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Other information

Contains no substances with occupational exposure limit values.

8.2. Exposure controls

General protective and hygiene measures

Wash contaminated clothing before reuse. Wash hands and face before breaks and after work.

Respiratory protection

Breathing apparatus in the event of aerosol. Particle filter P2

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Hand protection

Gloves

| | | | |
|----------------------|----------------------|-----|--|
| Appropriate Material | nitrile rubber - NBR | | |
| Material thickness | 0.11 | mm | |
| Breakthrough time | > 480 | min | |

Eye protection

Tightly fitting safety glasses

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

| | | | |
|----------------------------------|----------------|-----|-----|
| Form | solid | | |
| Colour | colourless | | |
| Odour | of ammonia | | |
| pH value | | | |
| Value | 9.4 | | |
| Concentration/H ₂ O | 100 | g/l | |
| Temperature | 20 | °C | |
| Melting point | | | |
| Remarks | Not applicable | | |
| Flash point | | | |
| Remarks | Not applicable | | |
| Vapour pressure | | | |
| Value | 69 | | hPa |
| Temperature | 20 | °C | |
| Solubility in water | | | |
| Value | appr. 320 | | g/l |
| Temperature | 20 | °C | |
| Decomposition temperature | | | |
| Value | > 59 | | °C |

9.2. Other information**Other information**

Product is hygroscopic.

SECTION 10: Stability and reactivity**10.1. Reactivity**Exothermic reaction with: Strong bases, nitrates, nitride, Acids, Risk of explosion with: Sodium hypochlorite, hydrogen peroxide (H₂O₂).**10.2. Chemical stability**

Protect from light.

10.4. Conditions to avoid

Protect from warmth. Heat

10.5. Incompatible materials

nitrates, nitride, Acids, Bases

10.6. Hazardous decomposition productsIn the event of fire the following can be released: nitrous oxides (NO_x), Ammonia

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Other information

light-sensitive

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute oral toxicity**

| | | | |
|---------|--|----|------------|
| ATE | 475.523 | | mg/kg |
| | 3 | | |
| Method | calculated value (Regulation (EC) No. 1272/2008) | | |
| Species | rat | | |
| LD50 | 1800 | to | 2150 mg/kg |
| Source | Merck KGaA Safety Data Sheet | | |

Acute oral toxicity (Components)**ammonium carbamate**

| | | | |
|---------|------------------------------|----|------------|
| Species | rat | | |
| LD50 | 681 | to | 1470 mg/kg |
| Method | OECD 401 | | |
| Source | Merck KGaA Safety Data Sheet | | |

ammonium hydrogencarbonate

| | | | |
|---------|------------------------------|--|-------|
| Species | rat | | |
| LD50 | 1576 | | mg/kg |
| Method | OECD 401 | | |
| Source | Merck KGaA Safety Data Sheet | | |

ammonium hydrogencarbonate

| | | | |
|---------|-----|------|-------|
| Species | rat | | |
| LD50 | >= | 1470 | mg/kg |

Acute dermal toxicity

| | | | |
|---------|------------------------------|------|-------|
| Species | rat | | |
| LD50 | > | 2000 | mg/kg |
| Source | Merck KGaA Safety Data Sheet | | |

Skin corrosion/irritation

| | |
|------------|----------|
| evaluation | irritant |
|------------|----------|

Skin corrosion/irritation (Components)**ammonium carbamate**

| | |
|------------|---------------|
| evaluation | non-corrosive |
| Method | OECD 431 |

ammonium carbamate

| | |
|------------|----------|
| evaluation | irritant |
| Method | OECD 439 |

ammonium carbamate

| | |
|------------|---------------|
| evaluation | non-corrosive |
| Method | OECD 431 |

ammonium carbamate

| | |
|------------|----------|
| evaluation | irritant |
| Method | OECD 439 |

Serious eye damage/irritation

| | |
|------------|---|
| evaluation | irritant - risk of serious damage to eyes |
|------------|---|

Serious eye damage/irritation (Components)**ammonium carbamate**

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evaluation irritant - risk of serious damage to eyes
Method OECD 437

Sensitization

Remarks No data available.

Mutagenicity (Components)**ammonium carbamate**

Species Salmonella typhimurium
evaluation No mutagenicity in the Ames-test.
Method OECD 471
Source Merck KGaA Safety Data Sheet

ammonium carbamate

evaluation No experimental information on genotoxicity in vitro available.

Experience in practice

Irritation. nausea. vomiting. diarrhea. spasms. disorders of the central nervous system

Other information

Observe the usual precautions for handling chemicals.

SECTION 12: Ecological information**12.1. Toxicity****Fish toxicity (Components)****ammonium carbamate**

Species Fathead minnow (*Pimephales promelas*)
LC50 37 mg/l
Duration of exposure 96 h
Source Merck KGaA Safety Data Sheet

ammonium hydrogencarbonate

Species rainbow trout (*Oncorhynchus mykiss*)
LC50 173 mg/l
Duration of exposure 96 h
Source ECOTOX Database

ammonium hydrogencarbonate

Species rainbow trout (*Oncorhynchus mykiss*)
LC50 63.4 mg/l
Duration of exposure 96 h

Daphnia toxicity (Components)**ammonium carbamate**

Species Daphnia magna
EC50 63.7 mg/l
Duration of exposure 48 h
Method OECD 202
Source Merck KGaA Safety Data Sheet

Algae toxicity (Components)**ammonium carbamate**

Species Desmodesmus subspicatus
IC50 129.1 mg/l
Duration of exposure 72 h
Source Merck KGaA Safety Data Sheet

Bacteria toxicity (Components)**ammonium carbamate**

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Species activated sludge
 EC20 1000 mg/l
 Duration of exposure 30 min
 Method OECD 209

ammonium hydrogencarbonate

Species Pseudomonas putida
 EC50 1895 mg/l
 Duration of exposure 16 h
 Method OECD 209

12.2. Persistence and degradability**General information**

No data available

12.4. Mobility in soil**General information**

No data available

12.6. Other adverse effects**General information**

Do not allow it to reach soil, ground water, water bodies or sewage system.

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

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

SECTION 14: Transport information

| | Land transport ADR/RID | Marine transport IMDG/GGVSee | Air transport ICAO/IATA |
|------------------------|------------------------|---|---|
| 14.1. UN number | Non-dangerous goods | The product does not constitute a hazardous substance in sea transport. | The product does not constitute a hazardous substance in air transport. |

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 3
 (Germany)

Remarks Classification according to Annex 4 VwVwS

SECTION 16: Other information

Hazard statements listed in Chapter 3

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| | |
|------|----------------------------|
| H302 | Harmful if swallowed. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |

CLP categories listed in Chapter 3

| | |
|---------------|--------------------------------|
| Acute Tox. 4 | Acute toxicity, Category 4 |
| Eye Dam. 1 | Serious eye damage, Category 1 |
| Skin Irrit. 2 | Skin irritation, Category 2 |

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.