

Safety Data Sheet

according to UK REACH Regulation

Prüflösung Ammoniumchlorid in Natronlauge

Revision date: 12.07.2022

Product code: 28087

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Hazardous components

| CAS No | Chemical name | | | Quantity |
|------------|---------------------------------------|--------------|------------------|-------------|
| | EC No | Index No | REACH No | |
| | Classification (GB CLP Regulation) | | | |
| 12125-02-9 | ammonium chloride | | | 10 - < 15 % |
| | 235-186-4 | 017-014-00-8 | 01-2119487950-27 | |
| | Acute Tox. 4, Eye Irrit. 2; H302 H319 | | | |

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity |
|------------|--|-------------------|-------------|
| | Specific Conc. Limits, M-factors and ATE | | |
| 12125-02-9 | 235-186-4 | ammonium chloride | 10 - < 15 % |
| | dermal: LD50 = > 2000 mg/kg; oral: LD50 = 1410 mg/kg | | |

SECTION 4: First aid measures

4.1. Description of first aid measures

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

Rinse mouth immediately and drink plenty of water.

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

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture

Non-flammable.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Suppress gases/vapours/mists with water spray jet.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Provide adequate ventilation.

Use personal protection equipment.

Avoid contact with skin, eyes and clothes.

Remove persons to safety.

Emergency procedures

Consult an expert

Do not breathe dust/fume/gas/mist/vapours/spray.

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For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8

6.2. Environmental precautions

No special environmental measures are necessary. Clean contaminated articles and floor according to the environmental legislation.

6.3. Methods and material for containment and cleaning up

For containment

- Cover drains.
- Prevent spread over a wide area (e.g. by containment or oil barriers).
- Collect in closed and suitable containers for disposal.
- Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

Other information

- Provide adequate ventilation.
- Do not breathe dust/fume/gas/mist/vapours/spray.
- Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.4. Reference to other sections

- Safe handling: see section 7
- Personal protection equipment: see section 8
- Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

No special measures are necessary.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Advice on general occupational hygiene

- Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme.
- Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed.

Hints on joint storage

No special measures are necessary.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

| CAS No | Substance | ppm | mg/m ³ | fibres/ml | Category | Origin |
|------------|-------------------------|-----|-------------------|-----------|---------------|--------|
| 12125-02-9 | Ammonium chloride, fume | - | 10 | | TWA (8 h) | WEL |
| | | - | 20 | | STEL (15 min) | WEL |

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DNEL/DMEL values

| CAS No | Substance | | |
|--------------------------|-------------------|----------|------------------------|
| DNEL type | Exposure route | Effect | Value |
| 12125-02-9 | ammonium chloride | | |
| Consumer DNEL, long-term | inhalation | systemic | 9,9 mg/m ³ |
| Consumer DNEL, long-term | dermal | systemic | 114 mg/kg bw/day |
| Consumer DNEL, long-term | oral | systemic | 11,4 mg/kg bw/day |
| Worker DNEL, long-term | inhalation | systemic | 33,5 mg/m ³ |
| Worker DNEL, long-term | dermal | systemic | 190 mg/kg bw/day |

PNEC values

| CAS No | Substance | |
|--|-------------------|--|
| Environmental compartment | Value | |
| 12125-02-9 | ammonium chloride | |
| Freshwater | 1,2 mg/l | |
| Freshwater (intermittent releases) | 1,2 mg/l | |
| Marine water | 11,2 mg/l | |
| Micro-organisms in sewage treatment plants (STP) | 16,2 mg/l | |
| Soil | 0,163 mg/kg | |

8.2. Exposure controls

Individual protection measures, such as personal protective equipment

Eye/face protection

Suitable eye protection: goggles.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Wear suitable protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid
 Colour: colourless
 Odour: odourless

Changes in the physical state

Melting point/freezing point: not determined
 Boiling point or initial boiling point and boiling range: ?
 Flash point: ?

Flammability

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| | |
|--|---------------------------|
| Solid/liquid: | not applicable |
| Gas: | not applicable |
| Lower explosion limits: | not determined |
| Upper explosion limits: | not determined |
| Self-ignition temperature | |
| Solid: | not applicable |
| Gas: | not applicable |
| Decomposition temperature: | not determined |
| pH-Value: | 10,0 |
| Solubility in other solvents | |
| not determined | |
| Partition coefficient n-octanol/water: | not determined |
| Vapour pressure: (at 50 °C) | <=1100 hPa |
| Density: | 1,05480 g/cm ³ |
| Relative vapour density: | not determined |

9.2. Other information

Information with regard to physical hazard classes

Oxidizing properties
Not oxidising.

Other safety characteristics

Solid content: not determined
Evaporation rate: not determined

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

none

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Acute toxicity

Based on available data, the classification criteria are not met.

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| CAS No | Chemical name | | | | | |
|------------|-------------------|---------------|---------|--------|------------------------------|----------------------|
| | Exposure route | Dose | Species | Source | Method | |
| 12125-02-9 | ammonium chloride | | | | | |
| | oral | LD50 mg/kg | 1410 | Rat | Other company data (1983) | other: not mentioned |
| | dermal | LD50 mg/kg | > 2000 | Rat | Study report (2010) | EU Method B.3 |

Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

The product is not: Ecotoxic.

| CAS No | Chemical name | | | | | |
|------------|--------------------------|-------|------------|---------|----------------------------|---|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 12125-02-9 | ammonium chloride | | | | | |
| | Acute fish toxicity | LC50 | 209 mg/l | 96 h | Cyprinus carpio | Indian J. Environ. Health, 17, 140-146, other: E03-05:APHA, AWWA & WPCF |
| | Acute crustacea toxicity | EC50 | 101 mg/l | 48 h | Daphnia magna | Env. Tox. Chem. 5, 443-447 (1986) (1986) other: ASTM E729-80 |
| | Fish toxicity | NOEC | 11,8 mg/l | 28 d | Pimephales promelas | Env. Tox. Chem. 5, 437-442 (1986) (1986) other: - American Society for Testing an |
| | Algae toxicity | NOEC | 26,8 mg/l | 10 d | Navicula sp. | Mar. Biol. 43(4), 307-315, (1977) (1977) no data |
| | Crustacea toxicity | NOEC | 14,6 mg/l | 21 d | Daphnia magna | Env. Tox. Chem. 5, 443-447 (1986) (1986) other: not mentioned |
| | Acute bacteria toxicity | (EC50 | 1618 mg/l) | 0,5 h | activated sludge, domestic | Study report (1988) OECD Guideline 209 |

12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

The product has not been tested.

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12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

The product has not been tested.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No information available.

Further information

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

Contaminated packaging

Wash with plenty of water. Completely emptied packages can be recycled.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:

No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

14.4. Packing group:

No dangerous good in sense of this transport regulation.

14.6. Special precautions for user

No information available.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 75

National regulatory information

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D):

1 - slightly hazardous to water

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route

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(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

Relevant H and EUH statements (number and full text)

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)