

Safety data sheet

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU



Laboratoriumdiscounter

Ammonium chloride 99+%, pure

article number: **AMC203.1.2**

Version: **2.0 en**

Replaces version of: 2020-05-26

Version: (1)

date of compilation: 2020-05-26

Revision: 2021-04-22

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

1.1 Product identifier

| | |
|---------------------------------|--------------------------|
| Identification of the substance | Ammonium chloride |
| Article number | AMC203.1.2 |
| Registration number (REACH) | 01-2119487950-27-xxxx |
| Index No | 017-014-00-8 |
| EC number | 235-186-4 |
| CAS number | 12125-02-9 |

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

| | |
|------------------|--|
| Identified uses: | laboratory chemical laboratory and analytical use |
|------------------|--|

1.3 Details of the supplier of the safety data sheet

Laboratoriumdiscounter
Zandvoortstraat 75
1976BN IJmuiden
Nederland

Telephone: +31 (0) 255 700 210

e-mail: info@laboratoriumdiscounter.nl

Website: www.laboratoriumdiscounter.nl

Competent person responsible for the safety data sheet:

: Department Health, Safety and Environment

e-mail (competent person):

info@laboratoriumdiscounter.nl

1.4 Emergency telephone number

| Name | Street | Postal code/ city | Telephone | Website |
|---|-----------|----------------------|--------------|---------|
| National Poisons Information Service City Hospital | Dudley Rd | B187QH Birmingham | 844 892 0111 | |

Emergency information service

+49/(0)89 19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Safety data sheet

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU

Ammonium chloride 99+%, pure

article number: **AMC203.1.2**



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Classification acc. to GHS

| Section | Hazard class | Hazard class and category | Hazard statement |
|---------|-----------------------------------|---------------------------|------------------|
| 3.10 | acute toxicity (oral) | (Acute Tox. 4) | H302 |
| 3.3 | serious eye damage/eye irritation | (Eye Irrit. 2) | H319 |

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

Signal word Warning

Pictograms

GHS07



Hazard statements

H302 Harmful if swallowed
H319 Causes serious eye irritation

Precautionary statements

Precautionary statements - prevention

P270 Do not eat, drink or smoke when using this product.

Precautionary statements - response

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Labelling of packages where the contents do not exceed 125 ml

Signal word: **Warning**

Symbol(s)



2.3 Other hazards

There is no additional information.

SECTION 3: Composition/information on ingredients

3.1 Substances

| | |
|-----------------------------|-----------------------|
| Name of substance | Ammonium chloride |
| Index No | 017-014-00-8 |
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Safety data sheet

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU

Ammonium chloride 99+%, pure

article number: **AMC203.1.2**



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Molecular formula

NH₄Cl

Molar mass

53,49 g/mol

SECTION 4: First aid measures

4.1 Description of first aid measures



General notes

Take off contaminated clothing.

Following inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

Following skin contact

Rinse skin with water/shower. In all cases of doubt, or when symptoms persist, seek medical advice.

Following eye contact

Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. In case of eye irritation consult an ophthalmologist.

Following ingestion

Rinse mouth with water (only if the person is conscious). Call a doctor.

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

After eye contact: Irritation,

Following skin contact: Localised redness, oedema, pruritis and/or pain,

Following ingestion: Nausea, Vomiting,

Following inhalation: Cough, pain, choking, and breathing difficulties

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

none

SECTION 5: Firefighting measures

5.1 Extinguishing media



Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings
water spray, foam, dry extinguishing powder, carbon dioxide (CO₂)

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

Non-combustible.

Safety data sheet

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU

Ammonium chloride 99+%, pure

article number: **AMC203.1.2**



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Hazardous combustion products

In case of fire may be liberated: nitrogen oxides (NO_x), hydrogen chloride (HCl)

5.3 Advice for firefighters

Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures



For non-emergency personnel

Avoid contact with skin, eyes and clothes. Do not breathe dust.

2. Environmental precautions

Keep away from drains, surface and ground water.

3. Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains.

Advice on how to clean up a spill

Take up mechanically. Control of dust.

Other information relating to spills and releases

Place in appropriate containers for disposal.

4. Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

1. Precautions for safe handling

No special measures are necessary.

• Measures to prevent fire as well as aerosol and dust generation

Removal of dust deposits.

Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs.

2. Conditions for safe storage, including any incompatibilities

Store in a dry place.

Incompatible substances or mixtures

Observe hints for combined storage.

Consideration of other advice

• Ventilation requirements

Use local and general ventilation.

Safety data sheet

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU

Ammonium chloride 99+%, pure

article number: **AMC203.1.2**



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• Specific designs for storage rooms or vessels

Recommended storage temperature: 15 – 25 °C.

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

| Country | Name of agent | CAS No | Notation | Identifier | TWA [mg/m³] | STEL [mg/m³] | Ceiling-C [ppm] | Ceiling-C [mg/m³] | Source |
|---------|-------------------|------------|----------|------------|-------------|--------------|-----------------|-------------------|-----------|
| GB | dust | | i | WEL | 10 | | | | EH40/2005 |
| GB | dust | | r | WEL | 4 | | | | EH40/2005 |
| GB | ammonium chloride | 12125-02-9 | fume | WEL | 10 | 20 | | | EH40/2005 |

Notation

Ceiling-C Ceiling value is a limit value above which exposure should not occur

fume As fume

i Inhalable fraction

r Respirable fraction

STEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-

minute period (unless otherwise specified)

TWA Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8

hours time-weighted average (unless otherwise specified)

Relevant DNELs/DMELs/PNECs and other threshold levels

• human health values

| Endpoint | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
|----------|-----------------|------------------------------------|-------------------|----------------------------|
| DNEL | 128,9 mg/kg | human, dermal | worker (industry) | chronic - systemic effects |
| DNEL | 43,97 mg/m³ | human, inhalatory | worker (industry) | chronic - systemic effects |

• environmental values

| Endpoint | Threshold level | Environmental compartment | Exposure time |
|----------|-----------------|------------------------------|------------------------------|
| PNEC | 0,25 mg/l | freshwater | short-term (single instance) |
| PNEC | 0,025 mg/l | marine water | short-term (single instance) |
| PNEC | 13,1 mg/l | sewage treatment plant (STP) | short-term (single instance) |
| PNEC | 0,09 mg/kg | marine sediment | short-term (single instance) |
| PNEC | 50,7 mg/kg | soil | short-term (single instance) |
| PNEC | 0,43 mg/l | water | intermittent release |
| PNEC | 0,9 mg/kg | freshwater sediment | short-term (single instance) |

Safety data sheet

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU

Ammonium chloride 99+%, pure

article number: **AMC203.1.2**



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8.2 Exposure controls

Individual protection measures (personal protective equipment)

Eye/face protection



Use safety goggle with side protection.

Skin protection



• hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. 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. The times are approximate values from measurements at 22 ° C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a considerable reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

• type of material

NBR (Nitrile rubber)

• material thickness

>0,11 mm

• breakthrough times of the glove material

>480 minutes (permeation: level 6)

• other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

Respiratory protection



Respiratory protection necessary at: Dust formation. Particulate filter device (EN 143). P2 (filters at least 94 % of airborne particles, colour code: White).

Environmental exposure controls

Keep away from drains, surface and ground water.

Safety data sheet

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU

Ammonium chloride 99+%, pure

article number: **AMC203.1.2**



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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

| | |
|-----------------|-----------------------------|
| Physical state | solid (powder, crystalline) |
| Colour | white |
| Odour | odourless |
| Odour threshold | no data available |

Other physical and chemical parameters

| | |
|---|-------------------------------------|
| pH (value) | 4,7 (water: 200 g/l, 25 °C) |
| Melting point/freezing point | 338 °C |
| Sublimation point | 338°C |
| Initial boiling point and boiling range | this information is not available |
| Flash point | not applicable |
| Evaporation rate | no data available |
| Flammability(solid, gas) | these information are not available |

Explosive limits

| | |
|---------------------------------|-------------------------------------|
| · lower explosion limit (LEL) | this information is not available |
| · upper explosion limit (UEL) | this information is not available |
| Explosion limits of dust clouds | these information are not available |
| Vapour pressure | 66 hPa at 250 °C |
| Density | 1,53 g/cm ³ at 25 °C |
| Vapour density | this information is not available |
| Bulk density | ~ 600 – 900 kg/m ³ |
| Relative density | this information is not available |

Solubility(ies)

| | |
|------------------|------------------|
| Water solubility | 372 g/l at 20 °C |
|------------------|------------------|

Partition coefficient

| | |
|---------------------------|--|
| n-octanol/water (log KOW) | -4,37 (Lit.) |
| Auto-ignition temperature | Information on this property is not available. |
| Decomposition temperature | 338 °C (ECHA) |
| Viscosity | not relevant (solid matter) |
| Explosive properties | Shall not be classified as explosive. |
| Oxidising properties | none |

9.2 Other information

There is no additional information.

Safety data sheet

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU

Ammonium chloride 99+%, pure

article number: **AMC203.1.2**



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SECTION 10: Stability and reactivity

1. Reactivity

This material is not reactive under normal ambient conditions.

2. Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

3. Possibility of hazardous reactions

Violent reaction with: Alkali hydroxide (caustic alkali), Bases, Nitrate, Acids, Strong oxidiser

4. Conditions to avoid

Keep away from heat. Decomposition takes place from temperatures above: 338 °C.

5. Incompatible materials

aluminium, lead, iron, copper

6. Hazardous decomposition products

Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

| Exposure route | Endpoint | Value | Species | Source |
|----------------|----------|-------------|---------|--------|
| oral | LD50 | 1.410 mg/kg | rat | ECHA |

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Summary of evaluation of the CMR properties

Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant

• Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

• Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Symptoms related to the physical, chemical and toxicological characteristics

• If swallowed

nausea, vomiting

Safety data sheet

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU

Ammonium chloride 99+%, pure

article number: **AMC203.1.2**



Laboratoriumdiscounter

- **If in eyes**

Causes serious eye irritation

- **If inhaled**

cough, pain, choking, and breathing difficulties

- **If on skin**

pruritis, localised redness

Other information

Other adverse effects: Circulatory collapse, Blood pressure drop, Spasms

SECTION 12: Ecological information

12.1 Toxicity

acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment.

Aquatic toxicity (acute)

| Endpoint | Value | Species | Source | Exposure time |
|----------|------------|-------------------------------------|--------|---------------|
| LC50 | 46,27 mg/l | Prosopium williamsoni | ECHA | 96 h |
| LC50 | 42,91 mg/l | rainbow trout (Oncorhynchus mykiss) | ECHA | 96 h |
| EC50 | 136,6 mg/l | daphnia magna | ECHA | 48 h |
| EC50 | 98,5 mg/l | Ceriodaphnia dubia | ECHA | 48 h |

Aquatic toxicity (chronic)

| Endpoint | Value | Species | Source | Exposure time |
|-------------------|------------|--------------------------------|--------|---------------|
| EC50 | 1.310 mg/l | microorganisms | ECHA | 30 min |
| growth (EbCx) 10% | 4,28 mg/l | bluegill (Lepomis macrochirus) | ECHA | 30 d |

2. Process of degradability

The methods for determining the biological degradability are not applicable to inorganic substances.

3. Bioaccumulative potential

Does not significantly accumulate in organisms.

n-octanol/water (log KOW)

-4,37

4. Mobility in soil

Data are not available.

5. Results of PBT and vPvB assessment

Data are not available.

6. Other adverse effects

Data are not available.

Safety data sheet

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU

Ammonium chloride 99+%, pure

article number: **AMC203.1.2**



Laboratoriumdiscounter

SECTION 13: Disposal considerations

13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

Sewage disposal-relevant information

Do not empty into drains.

2. Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

3. Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

SECTION 14: Transport information

- | | | |
|----|--|--|
| 1. | UN number | (not subject to transport regulations) |
| 2. | UN proper shipping name | not relevant |
| 3. | Transport hazard class(es) | not relevant |
| | Class | - |
| 4. | Packing group | not relevant, not assigned to a packing group |
| 5. | Environmental hazards | none (non-environmentally hazardous acc. to the dangerous goods regulations) |
| 6. | Special precautions for user There is no additional information. | |
| 7. | Transport in bulk according to Annex II of MARPOL and the IBC Code The cargo is not intended to be carried in bulk. | |
| 8. | Information for each of the UN Model Regulations <ul style="list-style-type: none">• Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) Not subject to ADR, RID and ADN.• International Maritime Dangerous Goods Code (IMDG) Not subject to IMDG.• International Civil Aviation Organization (ICAO-IATA/DGR) Not subject to ICAO-IATA. | |

Safety data sheet

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU

Ammonium chloride 99+%, pure

article number: **AMC203.1.2**



Laboratoriumdiscounter

SECTION 15: Regulatory information

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

Relevant provisions of the European Union (EU)

- **Regulation 649/2012/EU concerning the export and import of hazardous chemicals (PIC)**

Not listed.

- **Regulation 1005/2009/EC on substances that deplete the ozone layer (ODS)**

Not listed.

- **Regulation 850/2004/EC on persistent organic pollutants (POP)**

Not listed.

- **Restrictions according to REACH, Annex XVII**

| Name of substance | Type of registration | Conditions of restriction | No |
|-------------------|-------------------------|---------------------------|----|
| Ammonium chloride | 2016/1017/EC annex XVII | R65 | 65 |

Legend

R65

1. Shall not be placed on the market, or used, in cellulose insulation mixtures or cellulose insulation articles after 14 July 2018 unless the emission of ammonia from those mixtures or articles results in a concentration of less than 3 ppm by volume (2,12 mg/m³) under the test conditions specified in paragraph 4.

A supplier of a cellulose insulation mixture containing inorganic ammonium salts shall inform the recipient or consumer of the maximum permissible loading rate of the cellulose insulation mixture, expressed in thickness and density.

A downstream user of a cellulose insulation mixture containing inorganic ammonium salts shall ensure that the maximum permissible loading rate communicated by the supplier is not exceeded.

2. By way of derogation, paragraph 1 shall not apply to placing on the market of cellulose insulation mixtures intended to be used solely for the production of cellulose insulation articles, or to the use of those mixtures in the production of cellulose insulation articles.

3. In the case of a Member State that, on 14 July 2016, has national provisional measures in place that have been authorised by the Commission pursuant to Article 129(2)(a), the provisions of paragraphs 1 and 2 shall apply from that date.

4. Compliance with the emission limit specified in the first subparagraph of paragraph 1 shall be demonstrated in accordance with Technical Specification CEN/TS 16516, adapted as follows:

(a) the duration of the test shall be at least 14 days instead of 28 days;

(b) the ammonia gas emission shall be measured at least once per day throughout the test;

(c) the emission limit shall not be reached or exceeded in any measurement taken during the test;

(d) the relative humidity shall be 90 % instead of 50 %;

(e) an appropriate method to measure the ammonia gas emission shall be used;

(f) the loading rate, expressed in thickness and density, shall be recorded during the sampling of the cellulose insulation mixtures or articles to be tested.

| Name acc. to inventory | CAS No | Wt% | Listed in | Remarks |
|--|--------|-----|-----------|---------|
| Substances which contribute to eutrophication (in particular, nitrates and phosphates) | | 100 | A) | |

Legend

A) Indicative list of the main pollutants

- **Restrictions according to REACH, Title VIII**

None.

- **List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list**

not listed

Safety data sheet

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU

Ammonium chloride 99+%, pure

article number: **AMC203.1.2**



Laboratoriumdiscounter

• Seveso Directive

| 2012/18/EU (Seveso III) | | | |
|-------------------------|---------------------------------------|---|-------|
| No | Dangerous substance/hazard categories | Qualifying quantity (tonnes) for the application of lower and upper-tier requirements | Notes |
| | not assigned | | |

• Directive 75/324/EEC relating to aerosol dispensers

Filling batch

Deco-Paint Directive (2004/42/EC)

| | |
|-------------|-------------|
| VOC content | 0% 0 g/l |
|-------------|-------------|

Directive on industrial emissions (VOCs, 2010/75/EU)

| | |
|-------------|-------|
| VOC content | 0 % |
| VOC content | 0 g/l |

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II

not listed

Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

not listed

Directive 2000/60/EC establishing a framework for Community action in the field of water policy (WFD)

| Name acc. to inventory | CAS No | Listed in | Remarks |
|--|--------|-----------|---------|
| Substances which contribute to eutrophication (in particular, nitrates and phosphates) | | A) | |

Legend

A) Indicative list of the main pollutants

Regulation 98/2013/EU on the marketing and use of explosives precursors

not listed

Regulation 111/2005/EC laying down rules for the monitoring of trade between the Community and third countries in drug precursors

not listed

National inventories

Substance is listed in the following national inventories:

| Country | National inventories | Status |
|---------|----------------------|---------------------|
| AU | AICS | substance is listed |
| CA | DSL | substance is listed |
| CN | IECSC | substance is listed |
| EU | ECSI | substance is listed |

Safety data sheet

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU

Ammonium chloride 99+%, pure

article number: **AMC203.1.2**



Laboratoriumdiscounter

| Country | National inventories | Status |
|---------|----------------------|---------------------|
| EU | REACH Reg. | substance is listed |
| JP | CSCL-ENCS | substance is listed |
| KR | KECI | substance is listed |
| MX | INSQ | substance is listed |
| NZ | NZIoC | substance is listed |
| PH | PICCS | substance is listed |
| TR | CICR | substance is listed |
| TW | TCSI | substance is listed |
| US | TSCA | substance is listed |

Legend

| | |
|------------|---|
| AICS | Australian Inventory of Chemical Substances |
| CICR | Chemical Inventory and Control Regulation |
| CSCL-ENCS | List of Existing and New Chemical Substances (CSCL-ENCS) |
| DSL | Domestic Substances List (DSL) |
| ECSI | EC Substance Inventory (EINECS, ELINCS, NLP) |
| IECSC | Inventory of Existing Chemical Substances Produced or Imported in China |
| INSQ | National Inventory of Chemical Substances |
| KECI | Korea Existing Chemicals Inventory |
| NZIoC | New Zealand Inventory of Chemicals |
| PICCS | Philippine Inventory of Chemicals and Chemical Substances (PICCS) |
| REACH Reg. | REACH registered substances |
| TCSI | Taiwan Chemical Substance Inventory |
| TSCA | Toxic Substance Control Act |

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance.

SECTION 16: Other information

Indication of changes (revised safety data sheet)

| Section | Former entry (text/value) | Actual entry (text/value) | Safety-relevant |
|---------|---|---|-----------------|
| 1.1 | Registration number (REACH): 01-2119488876-14-xxxx | Registration number (REACH): 01-2119487950-27-xxxx | yes |

Abbreviations and acronyms

| Abbr. | Descriptions of used abbreviations |
|-----------|---|
| ADN | Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways) |
| ADR | Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road) |
| CAS | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances) |
| Ceiling-C | ceiling value |
| CLP | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures |
| CMR | Carcinogenic, Mutagenic or toxic for Reproduction |
| DGR | Dangerous Goods Regulations (see IATA/DGR) |
| DMEL | Derived Minimal Effect Level |

Safety data sheet

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU

Ammonium chloride 99+%, pure

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Laboratoriumdiscounter

| Abbr. | Descriptions of used abbreviations |
|-----------|---|
| DNEL | Derived No-Effect Level |
| EC50 | Effective Concentration 50%. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval |
| EH40/2005 | EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/) |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| ELINCS | European List of Notified Chemical Substances |
| GHS | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations |
| IATA | International Air Transport Association |
| IATA/DGR | Dangerous Goods Regulations (DGR) for the air transport (IATA) |
| ICAO | International Civil Aviation Organization |
| IMDG | International Maritime Dangerous Goods Code |
| index No | the Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 |
| LC50 | Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval |
| LD50 | Lethal Dose 50%: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval |
| MARPOL | International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant") |
| NLP | No-Longer Polymer |
| PBT | Persistent, Bioaccumulative and Toxic |
| PNEC | Predicted No-Effect Concentration |
| ppm | parts per million |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail) |
| STEL | short-term exposure limit |
| SVHC | Substance of Very High Concern |
| TWA | time-weighted average |
| VOC | Volatile Organic Compounds |
| vPvB | very Persistent and very Bioaccumulative |
| WEL | workplace exposure limit |

Key literature references and sources for data

- Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU
- Regulation (EC) No. 1272/2008 (CLP, EU GHS)
- Dangerous Goods Regulations (DGR) for the air transport (IATA)
- International Maritime Dangerous Goods Code (IMDG)

List of relevant phrases (code and full text as stated in chapter 2 and 3)

Safety data sheet

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU

Ammonium chloride 99+%, pure

article number: **AMC203.1.2**



Laboratoriumdiscounter

| Code | Text |
|------|-------------------------------|
| H302 | harmful if swallowed |
| H319 | causes serious eye irritation |

Disclaimer

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.