



ISO 9001 Quality System Certified Organization

MANUFACTURER & EXPORTER OF LABORATORY CHEMICALS AND OILS

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MATERIAL SAFETY DATA SHEET (MSDS) SDS/MSDS

AMMONIUM CHLORIDE

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

1.1. Product identifier

Product form

Trade name: AMMONIUM CHLORIDE

EC Index-No. : 017-014-00-8

EC-No. : 235-186-4

CAS-No. : 12125-02-9

Formula: NH₄Cl

Chemical structure

Synonyms

: Substance

: Sal ammoniac, Salmiac, Nushadir salt, Sal armagnac, Ammonium Muriate, Amchlor

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

1.2.1. Relevant identified uses

Main use category

Use of the substance/mixture

1.2.2. Uses advised against

No additional information available

: Industrial use, Professional use

: Laboratory chemicals, Manufacture of substances



SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Acute toxicity (oral), Category 4

Serious eye damage/eye irritation, Category 2

Full text of H-statements: see section 16

Adverse physicochemical, human health and environmental effects

Harmful if swallowed. Causes serious eye irritation.

2.2. Label elements

H302

H319

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

Hazard pictograms (CLP)

:AMMONIUM CHLORIDE

Signal word (CLP)

Hazard statements (CLP)

Precautionary statements (CLP)

ULTRA PURE-LAB CHEM INDUSTRIES (LLP)

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2.3. Other hazards

: Warning

: H302 - Harmful if swallowed.

H319 - Causes serious eye irritation.

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

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance type

Name

CAS-No.

EC-No.

EC Index-No.

3.2. Mixtures

: Mono-constituent

: AMMONIUM CHLORIDE

: 12125-02-9

: 235-186-4

: 017-014-00-8

Not applicable



SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general

First-aid measures after inhalation

First-aid measures after skin contact

First-aid measures after eye contact

First-aid measures after ingestion

: Call a poison center or a doctor if you feel unwell.

: Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

: Wash with plenty of water/... Get immediate medical advice/attention. Wash skin with plenty of water.

: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention. If eye irritation persists: Get medical advice/attention.

: Rinse mouth. Call a POISON CENTER/doctor if you feel unwell. Call a poison center or a doctor if you feel unwell.

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

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Symptoms/effects after eye contact

Symptoms/effects after ingestion

: Causes serious eye irritation. Eye irritation.

: Harmful if swallowed.

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

Unsuitable extinguishing media

: Carbon dioxide. Dry powder. Foam. Water spray.

: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire

: Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting

: Do not enter fire area without proper protective equipment, including respiratory protection.

Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures

6.1.2. For emergency responders

Protective equipment

Emergency procedures

6.2. Environmental precautions

: Ventilate spillage area. Evacuate unnecessary personnel. Avoid contact with skin and eyes.

: Do not attempt to take action without suitable protective equipment. Use personal protective equipment as required. For further information refer to section 8: "Exposure controls/personal protection".

: Ventilate area.

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Other information

6.4. Reference to other sections

: Mechanically recover the product. Soak up spills with inert solids, such as clay or

diatomaceous earth as soon as possible. On land, sweep or shovel into suitable containers.

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: Dispose of materials or solid residues at an authorized site.

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

Hygiene measures

: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe vapours. Avoid dust formation. Wear personal protective equipment.

: Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

7.3. Specific end use(s)

: Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool.

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National occupational exposure and biological limit values

AMMONIUM CHLORIDE

Portugal - Occupational Exposure Limits

Local name

Cloreto de amónio, fumos

OEL TWA

10 mg/m³

OEL STEL 20 mg/m³

Regulatory reference Norma Portuguesa NP 1796:2014

Spain - Occupational Exposure Limits

Local name Cloruro amónico

VLA-ED (OEL TWA) [1] 10 mg/m³ humos

VLA-EC (OEL STEL) 20 mg/m³ humos

Regulatory reference Límites de Exposición Profesional para Agentes Químicos en España 2021.

INSHT

United Kingdom - Occupational Exposure Limits

Local name Ammonium chloride

WEL TWA (OEL TWA) [1] 10 mg/m³ fume

WEL STEL (OEL STEL) 20 mg/m³ fume

Regulatory reference EH40/2005 (Fourth edition, 2020). HSE

USA - ACGIH - Occupational Exposure Limits

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Local name Ammonium chloride, fume

ACGIH OEL TWA 10 mg/m³

ACGIH OEL STEL 20 mg/m³

Remark (ACGIH) TLV[®] Basis: Eye & URT irr

Regulatory reference ACGIH 2021

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):

8.2.2.1. Eye and face protection

Eye protection:

Safety glasses

8.2.2.2. Skin protection

Hand protection:

Protective gloves

8.2.2.3. Respiratory protection

Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Crystalline powder.

Molecular mass : 53.49 g/mol

Colour : White.

Odour : Odourless.



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Odour threshold : No data available

pH : 4.5 – 5.5 (5% Aqueous solution at 25°C)

Relative evaporation rate (butylacetate=1) : No data available

Melting point : 340 °C

Freezing point : Not applicable

Boiling point : 520 °C

Flash point : Not applicable

Auto-ignition temperature : > 400 °C

Decomposition temperature : No data available

Flammability (solid, gas) : Non flammable.

Vapour pressure : 1.3 hPa at 30°C

Relative vapour density at 20 °C : No data available

Relative density : No data available

Density : 1.53 g/cm³ at 25°C

Solubility : Water: Soluble in water

Partition coefficient n-octanol/water (Log Pow) : No data available

Viscosity, kinematic : Not applicable

Viscosity, dynamic : No data available

Explosive properties : No data available

Oxidising properties : No data available

Explosive limits : Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Direct sunlight. Air contact. Moisture.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)



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Acute toxicity (dermal)
Acute toxicity (inhalation)
Skin corrosion/irritation
Serious eye damage/irritation
Respiratory or skin sensitisation
Germ cell mutagenicity
Carcinogenicity
Reproductive toxicity
STOT-single exposure
STOT-repeated exposure
Aspiration hazard

: Harmful if swallowed.

: Not classified

: Not classified

: Not classified

pH: 4.5 – 5.5 (5% Aqueous solution at 25°C)

: Causes serious eye irritation.

pH: 4.5 – 5.5 (5% Aqueous solution at 25°C)

: Not classified

: Not classified

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UPLC
Ultra Pure-Lab Chem Industries

AMMONIUM CHLORIDE EXTRA PURE (12125-02-9)

Viscosity, kinematic

Not applicable

Potential adverse human health effects and symptoms

SECTION 12: Ecological information

: Harmful if swallowed.

12.1. Toxicity

Ecology - general

Hazardous to the aquatic environment, short-term (acute)

Hazardous to the aquatic environment, long-term (chronic)

12.2. Persistence and degradability

: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

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: Not classified

: Not classified

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

14.1. UN number

UN-No. (ADR) : Not regulated

UN-No. (IMDG) : Not regulated

UN-No. (IATA) : Not regulated

UN-No. (ADN) : Not regulated

UN-No. (RID) : Not regulated

14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not regulated

Proper Shipping Name (IMDG) : Not regulated

Proper Shipping Name (IATA) : Not regulated

Proper Shipping Name (ADN) : Not regulated

Proper Shipping Name (RID) : Not regulated

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : Not regulated

IMDG

Transport hazard class(es) (IMDG) : Not regulated

IATA

Transport hazard class(es) (IATA) : Not regulated

ADN

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Transport hazard class(es) (ADN) : Not regulated

RID

Transport hazard class(es) (RID) : Not regulated

14.4. Packing group

Packing group (ADR) : Not regulated

Packing group (IMDG) : Not regulated

Packing group (IATA) : Not regulated

Packing group (ADN) : Not regulated

Packing group (RID) : Not regulated

14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available

14.6. Special precautions for user

Overland transport

Not regulated

AMMONIUM CHLORIDE EXTRA PURE

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

AMMONIUM CHLORIDE EXTRA PURE is not on the REACH Candidate List

AMMONIUM CHLORIDE EXTRA PURE is not on the REACH Annex XIV List

AMMONIUM CHLORIDE EXTRA PURE is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July

2012 concerning the export and import of hazardous chemicals.

AMMONIUM CHLORIDE EXTRA PURE is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June

2019 on persistent organic pollutants

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15.1.2. National regulations

Germany

Water hazard class (WGK)

Hazardous Incident Ordinance (12. BImSchV)

Netherlands

SZW-lijst van kankerverwekkende stoffen

SZW-lijst van mutagene stoffen

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen – Borstvoeding

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen – Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen – Ontwikkeling

Denmark

Danish National Regulations

15.2. Chemical safety assessment

: WGK 1, Slightly hazardous to water (Classification according to AwSV; ID No. 213)

: Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

: The substance is not listed

: The substance is not listed

: The substance is not listed

: The substance is not listed

: The substance is not listed

: Young people below the age of 18 years are not allowed to use the product

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms

ADN

ADR

ATE

BCF

European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

European Agreement concerning the International Carriage of Dangerous Goods by Road

Acute Toxicity Estimate

Bioconcentration factor

BLV

Biological limit value

Abbreviations and acronyms

BOD Biochemical oxygen demand (BOD)

COD Chemical oxygen demand (COD)

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DMEL Derived Minimal Effect level

DNEL Derived-No Effect Level

EC-No. European Community number

EC50 Median effective concentration

EN European Standard

IARC International Agency for Research on Cancer

IATA International Air Transport Association

IMDG International Maritime Dangerous Goods

LC50 Median lethal concentration

LD50 Median lethal dose

LOAEL Lowest Observed Adverse Effect Level

NOAEC No-Observed Adverse Effect Concentration

NOAEL No-Observed Adverse Effect Level

NOEC No-Observed Effect Concentration

OECD Organisation for Economic Co-operation and Development

OEL Occupational Exposure Limit

PBT Persistent Bioaccumulative Toxic

PNEC Predicted No-Effect Concentration

RID Regulations concerning the International Carriage of Dangerous Goods by Rail

SDS Safety Data Sheet

STP Sewage treatment plant

ThOD Theoretical oxygen demand (ThOD)

TLM Median Tolerance Limit

VOC Volatile Organic Compounds

CAS-No. Chemical Abstract Service number

N.O.S. Not Otherwise Specified

vPvB Very Persistent and Very Bioaccumulative

ED Endocrine disrupting properties

Full text of H- and EUH-statements

Acute Tox. 4 (Oral) Acute toxicity (oral), Category 4

Eye Irrit. 2 Serious eye damage/eye irritation, Category 2

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.