

⊢⊑ Safety Data Sheet

NH4CI

According to SANS 10234:2008 and SANS 11014:2010

Issue date:12/03/2020 Revision date: 12/03/2025 : Version: 1.0

SECTION 1: Identification

1.1. Product identifier

 Trade name
 : AMMONIUM CHLORIDE

 IUPAC name
 : ammonium chloride

 EC-No.
 : 235-186-4

 CAS-No.
 : 12125-02-9

 Product code
 : 101085xxx

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

Recommended uses and restrictions : For laboratory use only

1.3. Supplier's details

Formula

Labchem (Pty)Ltd 6 Wakefield Road Founders Hill 1609 Johannesburg - South Africa T +27 11 452 1116 - F +27 86 588 0293 techlab@labchem.co.za - www.labchem.co.za

1.4. Emergency telephone number

Emergency number : +27 11 452 1116

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

Acute toxicity (oral), Category 4 H302 Hazardous to the aquatic environment — H402

Acute Hazard, Category 3

Full text of H statements : see section 16

2.2. Label elements

Labelling according to the United Nations GHS

Hazard pictograms (GHS-ZA)



GHS07

Signal word (GHS-ZA) : Warning

Hazard statements (GHS-ZA) : H302 - Harmful if swallowed. H402 - Harmful to aquatic life

Precautionary statements (GHS-ZA) : P264 - Wash hands, forearms and face thoroughly after handling.

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

P273 - Avoid release to the environment.

P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.

P330 - Rinse mouth.

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

2.3. Other hazards

Adverse physicochemical, human health and

environmental effects

: Harmful if swallowed, Harmful to aquatic life

SECTION 3: Composition/information on ingredients

3.1. Substances

IUPAC name : ammonium chloride

Substance identification codes: See section 1.1

Name	Product identifier	%	Classification according to the United Nations GHS
ammonium chloride (Main constituent)	(CAS-No.) 12125-02-9	≥ 99.7	Acute Tox. 4 (Oral), H302 Aquatic Acute 3, H402

Full text of H-statements: see section 16

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3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Call a poison center or a doctor if you feel unwell.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Rinse mouth. Call a poison center or a doctor if you feel unwell.

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

No additional 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 : Water spray. Dry powder. Foam.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of : Toxic fumes may be released.

fire

5.3. Advice for firefighters

Protection during firefighting : 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

No additional information available

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Mechanically recover the product.

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

AMMONIUM CHLORIDE (12125-02-9)		
South Africa - Occupational Exposure Limits (Recommended Limits)		
Local name Ammonium Chloride - Fumes		
OEL TWA (mg/m³) 10 mg/m³		
OEL STEL (mg/m³) 20 mg/m³		
Regulatory reference Government Notice. R: 1179		

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

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Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment (PPE)

Hand protection : Protective gloves
Eye protection : Safety glasses

Skin and body protection : Wear suitable protective clothing

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):









8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Crystalline solid. Appearance 53.49 g/mol Molecular mass Colour Odour Odourless. Odour threshold : No data available No data available рΗ No data available pH solution Relative evaporation rate (butylacetate=1) : No data available Relative evaporation rate (ether=1) : No data available

Melting point : 338 °C Decomposition: 'yes'

Freezing point : Not applicable

Boiling point : No data available

Flash point : Not applicable

Auto-ignition temperature : Not applicable

Decomposition temperature : Not applicable

Decomposition temperature : No data available

Flammability (solid, gas) : Non flammable.

Vapour pressure : 1.3 hPa Temp.: 160 °C

Vapour pressure at 50 °C : No data available
Relative vapour density at 20 °C : No data available

Relative density : 1.53 Type: 'relative density' Temp.: 25 °C

Relative density of saturated gas/air mixture : No data available

Density : No data available

Relative gas density : No data available

Solubility : Water: 383 g/l (at 25°C)

Ethanol: 6 g/l (at 19°C)

Partition coefficient n-octanol/water (Log Pow) · No data available Partition coefficient n-octanol/water (Log Kow) : No data available Viscosity, kinematic : No data available Viscosity, dynamic : No data available : No data available Explosive properties Oxidising properties No data available **Explosive limits** : Not applicable Lower explosive limit (LEL) : No data available Upper explosive limit (UEL) : No data available

9.2. Other information

No additional information available

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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

None under recommended storage and handling conditions (see section 7).

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) : Harmful if swallowed.
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

AMMONIUM CHLORIDE (12125-02-9)		
LD50 oral rat	1410 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 1260 - 1550	
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 434 (Acute Dermal Toxicity - Fixed Dose Procedure)	

Skin corrosion/irritation : Not classified Serious eye damage/irritation : Not classified : Not classified Respiratory or skin sensitisation : Not classified Germ cell mutagenicity Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified

	AMMONIUM	CHLORIDE	(12125-02-9)
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NOAEL (oral, rat, 90 days)	≈ 1695.7 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-
	Day Oral Toxicity in Rodents)

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Harmful to aquatic life. Hazardous to the aquatic environment, short- : Harmful to aquatic life.

term (acute)

Hazardous to the aquatic environment, long- : Not classified

term (chronic)

AMMONIUM CHLORIDE (12125-02-9)	
LC50 fish 1	42.91 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
LC50 fish 2	46.27 mg/l Test organisms (species): Prosopium williamsoni
EC50 Daphnia 1 136.6 mg/l Test organisms (species): Daphnia magna	
EC50 Daphnia 2	98.5 mg/l Test organisms (species): other:Ceriodaphnia acanthina

12.2. Persistence and degradability

AMMONIUM CHLORIDE (12125-02-9)		
Persistence and degradability	No additional information available	

12.3. Bioaccumulative potential

AMMONIUM CHLORIDE (12125-02-9)	
Bioaccumulative potential	No additional information available

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AMMONIUM CHLORIDE (12125-02-9)		
Mobility in soil		No additional information available
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12.5. Other adverse effects

Ozone : Not classified

Other adverse effects : No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

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

SECTION 14: Transport information

In accordance with SANS / IMDG / IATA

SANS	IMDG	IATA	
14.1. UN number			
Not regulated for transport			
14.2. Proper Shipping Name			
Not applicable	Not applicable	Not applicable	
14.3. Transport hazard class(es)			
Not applicable	Not applicable	Not applicable	
Not applicable	Not applicable	Not applicable	
14.4. Packing group			
Not applicable	Not applicable	Not applicable	
14.5. Environmental hazards			
Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No	
	:		
	No supplementary information available		

14.6. Special precautions for user

- SANS

No data available

- IMDG

No data available

- IATA

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health, and environmental national regulations specific for the product

Regulatory reference : SANS 10234:2008; SANS 11014:2010; SANS 10228:2012; SANS 10229:2010; SANS 10232(1,2,4), SANS 10231:2018; Occupational Health and Safety Act 85 of 1993; National

Road Traffic Act 93 of 1996.

SECTION 16: Other information

 Issue date
 : 12/03/2020

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 : 12/03/2025

Full text of H-statements

H302	Harmful if swallowed.
H402	Harmful to aquatic life

SDS South Africa

The data provided in this Safety Data Sheet (SDS) is correct to the best of our knowledge. The data relates to the specific product as named and is ntended as a guide to the safe handling of the product in all its facets. The data may no longer be valid if the product is used in any process or in combination with other products. This SDS is not a quality specification nor any form of guarantee.

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