Safety data sheet according to 1907/2006/EC, Article 31

Printing date 19.07.2021

CHEMICALS, INC.

Revision: 19.07.2021

SECTION 1: I	dentification of the substance/mixture and of the company/u	ndertaking
· 1.1 Product identi	ifier	
· Trade name: Am	nonium chloride, 99.5+% (ACS)	
• Item number: 93-	0208	
· CAS Number:		
12125-02-9		
· EC number:		
235-186-4		
• Index number: 017-014-00-8		
	tified uses of the substance or mixture and uses advised against	
	it information available.	
	supplier of the safety data sheet	
· Manufacturer/Sup		
Strem Chemicals, 7 Mulliken Way	Inc.	
NEWBURYPORT,	. MA 01950	
USA	,	
info@strem.com		
	ion obtainable from: Technical Department	
• 1.4 Emergency tel		
	CHEMTREC: + 1 (800) 424-9300 pening times: +1 (978) 499-1600	
	lening times. +1 (9/8) 499-1000	
SECTION 2: H	Hazards identification of the substance or mixture cording to Regulation (EC) No 1272/2008	
SECTION 2: H	of the substance or mixture cording to Regulation (EC) No 1272/2008	
SECTION 2: F · 2.1 Classification · Classification acc	of the substance or mixture cording to Regulation (EC) No 1272/2008	
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SECTION 2: F · 2.1 Classification · Classification acc GHS07 Acute Tox. 4 H30	of the substance or mixture cording to Regulation (EC) No 1272/2008	
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TREMICALS, INC.

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P103	Read label before use.
P262	Do not get in eyes, on skin, or on clothing.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
· 2.3 Other hazar	rds
. Results of PRT	and vPvR assassment

· Results of PBT and vPvB assessment

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· 3.1 Chemical characterisation: Substances

- · CAS No. Description
- 12125-02-9 ammonium chloride
- *Identification number(s)*
- EC number: 235-186-4
- · Index number: 017-014-00-8

SECTION 4: First aid measures

• 4.1 Description of first aid measures

· General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Immediately rinse with water.
- · After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- · After swallowing: Call for a doctor immediately.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

SECTION 6: Accidental release measures

• 6.1 Personal precautions, protective equipment and emergency procedures Not required.

· 6.2 Environmental precautions: No special measures required.

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- 6.3 Methods and material for containment and cleaning up: Dispose contaminated material as waste according to item 13.
 6.4 Reference to other sections
- See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling No special precautions are necessary if used correctly.
- Information about fire and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep container tightly sealed.
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see item 7.
- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace:

12125-02-9 ammonium chloride

WEL Short-term value: 20 mg/m³

Long-term value: 10 mg/m³

· Additional information: The lists valid during the making were used as basis.

- · 8.2 Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:
- Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with the eyes. Avoid contact with the eyes and skin.
- **Respiratory protection:** Not required.
- · Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

- Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Material of gloves
- The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

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nde name: Ammonium chloride, 99.5+%	(ACS)
Ponetration time of along material	(Contd. of pag
• Penetration time of glove material The exact break through time has to be observed.	e found out by the manufacturer of the protective gloves and has to
Eye protection:	
Tightly sealed goggles	
9.1 Information on basic physical and c General Information	hemical properties
Appearance:	
Form:	Granulate
Colour:	White
· Odour: · Odour threshold:	Odourless Not determined.
pH-value:	Not applicable.
Change in condition Melting point/freezing point:	340 °C
Initial boiling point and boiling range	
Flash point:	Not applicable.
Flammability (solid, gas):	Not determined.
Ignition temperature:	
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Not determined.
Explosive properties:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined. Not determined.
Upper:	
Vapour pressure at 30 °C: Density at 20 °C:	1 hPa
•	1.527 g/cm ³
Bulk density at 20 °C: Relative density	500 kg/m³ Not determined.
Vapour density	Not applicable.
Evaporation rate	Not applicable.
Solubility in / Miscibility with water at 20 °C:	376 g/l
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
Solvent content:	0.0.07
Organic solvents:	0.0%
VOC (EC)	0.00 %
Solids content:	100.0 %
	(Contd. on pag



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• 9.2 Other information

No further relevant information available.

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.

· 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

• Acute toxicity

Harmful if swallowed.

· LD/LC50 values relevant for classification:

12125-02-9 ammonium chloride

Oral LD50 1650 mg/kg (rat)

- · Primary irritant effect:
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation

Causes serious eye irritation.

- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity 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
- · Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes: Not known to be hazardous to water.
- · 12.5 Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · **vPvB:** Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

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SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packaging:
- *Recommendation:* Disposal must be made according to official regulations.

SECTION 14: Transport information			
· 14.1 UN-Number · ADR, ADN, IMDG, IATA	not regulated		
· 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA	not regulated		
· 14.3 Transport hazard class(es)			
· ADR, ADN, IMDG, IATA · Class	not regulated		
· 14.4 Packing group · ADR, IMDG, IATA	not regulated		
· 14.5 Environmental hazards: · Marine pollutant:	No		
· 14.6 Special precautions for user	Not applicable.		
• 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable.			
· UN "Model Regulation":	not regulated		

SECTION 15: Regulatory information

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

· Directive 2012/18/EU

- · Named dangerous substances ANNEX I Substance is not listed.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Technical Department.

· Contact: Technical Director

· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (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 Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

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CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity – Category 4 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 (Contd. of page 6)

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