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ESTD.1976 MULTI CHEM YOUR CHEMICAL PARTNER

SAFETY DATA SHEET

AMMONIUM CHLORIDE

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

1.1 Product identifier:	
CAS Number:	12125-02-9
EC number:	231-695-1.
1.2 SYNONYMS:	• Sal ammoniac • Ammonium chloride (NH_4Cl) • Ammonium salt • Muriate of ammonia

SECTION 2: Hazards identification:

2.1 Classification of the substance or mixture:	Classification according to Regulation (EC) No 1272/2008 The substance is classified according to the CLP regulation.
2.2 Label elements:	Labelling according to Regulation (EC) No 1272/2008 Acute toxicity,oral (Category 4) Serious eye damage/ eye irritation(category 2)
Hazard Pictograms:	
Signal Word:	Danger
Hazard statements:	**H302:** Harmful if swallowed. **H319:** Causes serious eye irritation. **H335:** May cause respiratory irritation
Precautionary Statements:	**P260:** Do not breathe dust/fume/gas/mist/vapors/spray. **P264:** Wash thoroughly after handling. **P280:** Wear protective gloves/protective clothing/eye protection/face protection.

	P301 + P312: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. **P305 + P351 + P338:** 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. **P501:** Dispose of contents/container in accordance with local/regional/ national/international regulations.
2.3 Other hazards:	
Inhalation:	can cause respiratory irritation, coughing, and difficulty breathing, and prolonged exposure may lead to more severe respiratory issues.
Ingestion:	can cause symptoms such as nausea, vomiting, abdominal pain, and in severe cases, electrolyte imbalances and damage to the gastrointestinal tract.
Skin Contact:	can cause irritation, leading to redness, itching, or burning sensations, particularly in cases of prolonged exposure.
Eye contact:	can cause serious irritation, leading to redness, pain, and potential damage to the eye tissue.
Chronic Exposure:	can lead to respiratory issues, skin irritation, and potential kidney damage, particularly in cases of prolonged inhalation or skin contact with high concentrations.
Aggravation of pre-existing conditions:	may aggravate pre-existing respiratory conditions such as asthma or bronchitis, as well as skin conditions like eczema.

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SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation:	Substances
CAS No:	Description: 12125-02-9 AMMONIUM CHLORIDE
Identification number(s):	EC number: 231-695-1

SECTION 4: First aid measures

4.1 Description of first aid measures	
General information:	
After inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
After skin contact:	Remove contaminated clothing. Wash with soap and water. Consult a physician.
After eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes. consult a physician.
After swallowing:	Rinse mouth with water. Immediately after ingestion. Immediately make victim drink water (two glasses at most). Never give anything by mouth to an unconscious person. Do not induce vomiting. Consult a physician.
4.2 Most important symptoms and effects, both acute and delayed:	Acute exposure can cause irritation of the eyes, skin, and respiratory system, with delayed effects potentially involving chronic respiratory issues and kidney damage from prolonged exposure.
4.3 Indication of any immediate medical attention and special treatment needed:	Treat symptomatically.

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SECTION 5: Firefighting measures

5.1 Extinguishing media:	Carbon dioxide. Water spray. Alcohol-resistant foam.
5.2 Special hazards arising from the substance or mixture:	Nitrogen oxides(Nox), hydrogen chloride gas.
5.3 Advice for firefighters:	Wear fully protective suit, safety glasses and respiratory device. Cool tanks/drums with water spray/remove them into safety.
5.4 further information:	no data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Avoid dust accumulation. Seek medical attention.
6.2 Environmental precautions:	Do not enter this chemical into drains.
6.3 Methods and material for containment and cleaning up:	Take up spill into absorbent material, e.g.: sand, earth, vermiculite, powdered limestone. Scoop absorbed substance into closing containers. Spill must not return in its original container. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling:	For use in are with adequate ventilation. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material Do not use in confined spaces. Electrostatic discharge protection. Minimize dust generation and accumulation. Avoid ingestion and inhalation.
7.2 Conditions for safe storage, including any incompatibilities:	Store in original containers. Keep containers securely sealed Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Store in a dry and dark area.
Requirements to be met by storerooms and receptacles:	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
7.3 Specific end uses:	no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters	
Additional information about design of technical facilities:	A system of local and general exhaust is recommended.
8.2 Exposure controls	
Appropriate engineering controls	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment:	Dust respirator, protective masks, wearing anti chemical gloves, rubber gloves, etc.
General protective and hygienic measures:	Eyes, body and hand protection, maintain indoor air unobstructed. Wear protective equipment.
	Respiratory protection: Required.
Protection of hands:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws. Wash and dry hands.
	Eye protection: Required
Protection of Body:	Complete suit protecting against chemicals, Flame retardant antistatic protective clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties General Information	
Appearance: Form:	Powder
Colour:	White
Odour:	Odorless
pH-value:	5
Melting point/Melting range:	338°C
Boiling point/Boiling range:	520°C
Flammability (solid, gaseous):	Non-flammable
Ignition temperature:	Not applicable
Decomposition temperature:	520°C
Self-igniting:	No
Flash point:	Not applicable
Danger of explosion:	No

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Explosion limits: Lower:	Not applicable
Explosion limits: Upper:	Not applicable
Vapour pressure:	1.53 g/cm^3
Density at 20 °C:	1.53
Relative density:	1.53
Vapour density:	Not applicable
Evaporation rate:	Negligible
Solubility in / Miscibility with-·water at 20 °C:	Highly soluble
Partition coefficient:(n-octanol/water)	Not applicable
Viscosity:	Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity	No data available
10.2 Chemical stability	This chemical is stable under storage conditions.
10.3 Possibility of hazardous reactions	may release toxic gases when heated to high temperatures.
10.4 Conditions to avoid	High temperature, moisture.
10.5 Incompatible materials	Strong oxidizing agents, Strong acids and bases, Alkaline metals,
10.6 Hazardous decomposition products	Ammonia, hydrogen chloride.

SECTION 11: Toxicological information

11.1 Information on toxicological effects	
Acute Toxicity:	**LD50** (Oral, Rat) : 1410 mg/kg **LD50** (Dermal, Rabbit) : 2000 mg/kg **LC50** (Inhalation Rat) : no data available
Skin corrosion/Irritation:	No data available
Serious eye damage/irritation:	Causes serious eye irritation.
Respiratory damage/irritation:	No data available

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Ingestion:	No data available
Germ cell mutagenicity:	No data available
Carcinogenicity:	No data available
Reproductive toxicity:	No data available
Specific target organ toxicity - single exposure:	No data available
Specific target organ toxicity - repeated exposure:	No data available
Aspiration hazard:	No data available
Signs and Symptoms of Exposure:	Refer section 2.3
11.2 Additional toxicological information	
Biodegradability:	Readily biodegradable

SECTION 12: Ecological information

12.1 Toxicity **Aquatic toxicity:**	LC50(fish): 209 mg/l (96hr) EC50(daphnia):101 mg/l (48hr) ECr50(algae): 1300mg/l (52)
12.2 Persistence and degradability:	readily biodegradable and persistent
12.3 Bioaccumulative potential:	Low bioaccumulative
12.4 Mobility in soil:	High mobility
12.5 Other adverse effects:	No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Uncleaned packaging **Recommendation:**	dispose of in accordance with local hazardous waste regulations
Recommended cleansing agents:	Water, Isopropyl alcohol, ethanol, Mild detergents.

SECTION 14: Transport information

14.1 UN-Number · ADR, ADN, IMDG, IATA:	Not applicable
14.2 UN proper shipping name · ADR, ADN, IMDG, IATA:	Not applicable

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14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA :	Not applicable
14.4 Packing group · ADR, IMDG, IATA:	Not applicable
14.5 Environmental hazards:	Not applicable
14.6 Special precautions for user:	Handle responsibly.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Directive 2012/18/EU	Directive 2012/18/EU, under that this substance is not classified in listed substance
Named dangerous substances:	This substance is not listed in the annex 1 to the directive.
15.2 Chemical safety assessment:	Chemical assessment has been carried out under REACH regulation

SECTION 16: Other information

The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.