



AMON KİMYA

## Material Safety Data Sheet

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REVISION NO: 01

DIST.DATE : 11.01.2022

# AMMONIUM CHLORIDE

## Section 1 - Chemical Product and Company Identification

**MSDS Name:** Ammonium chloride

**Synonyms:** Ammonium Chloratum; Ammonium Chloridum; Ammonium Muriate; Sal Ammonia; Salmiac.

**Company Identification:** Amon Kimya ve Makine San. Tic. Ltd. Şti.  
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**Emergency Number:** +90 326 617 26 17

## Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
12125-02-9	Ammonium chloride	>99	235-186-4

**Hazard Symbols:** XN



**Risk Phrases:** 22 36

## Section 3 - Hazards Identification

### EMERGENCY OVERVIEW

*Harmful if swallowed. Irritating to eyes. Hygroscopic (absorbs moisture from the air).*

#### Potential Health Effects

**Eye:** Causes eye irritation.

**Skin:** May cause skin irritation. May be harmful if absorbed through the skin.

**Ingestion:** Harmful if swallowed. May cause irritation of the digestive tract. May cause systemic toxicity with acidosis.

**Inhalation:** If heated, dust or fume may cause respiratory tract irritation. May be harmful if inhaled.

**Chronic:** Prolonged or repeated skin contact may cause dermatitis.

## Section 4 - First Aid Measures

**Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

**Skin:** Get medical aid. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.



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**Ingestion:** Do not induce vomiting. Get medical aid immediately. Call a poison control center.

**Inhalation:** Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Get medical aid. Do not use mouth -to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

**Notes** **Physician:** Treat symptomatically and supportively.

### Section 5 - Fire Fighting Measures

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Substance is noncombustible.

**Extinguishing Media:** Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.

### Section 6 - Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Provide ventilation. Do not let this chemical enter the environment.

### Section 7 - Handling and Storage

**Handling:** Use with adequate ventilation. Minimize dust generation and accumulation. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale.

**Storage:** Store in a cool, dry place. Store in a tightly closed container.

### Section 8 - Exposure Controls, Personal Protection

#### Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

#### Exposure Limits

CAS# 12125-02-9:

United Kingdom, WEL - TWA: 10 mg/m<sup>3</sup> TWA (fume) United Kingdom, WEL - STEL: 20 mg/m<sup>3</sup> STEL (fume)

Belgium - TWA: 10 mg/m<sup>3</sup> TWA (fume) Belgium - STEL: 20 mg/m<sup>3</sup> STEL (fume)

France - VME: 10 mg/m<sup>3</sup> VME (fume)

Malaysia: 10 mg/m<sup>3</sup> TWA (fume)



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Spain: 10 mg/m<sup>3</sup> VLA-ED (fume) Spain: 20 mg/m<sup>3</sup> VLA -EC (fume)

### Personal Protective Equipment

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

### Section 9 - Physical and Chemical Properties

**Physical State:** Crystalline powder

**Color:** colorless or white

**Odor:** odorless

**pH:** 5.0 (10% sol at 25C)

**Vapor Pressure:** 1 mm Hg @ 160.4C

**Viscosity:** Not available

**Boiling Point:** 520 deg C ( 968.00°F)

**Freezing/Melting Point:** 328 deg C ( 622.40°F)

**Autoignition Temperature:** Not available.

**Flash Point:** Not available

**Explosion Limits: Lower:** Not available

**Explosion Limits: Upper:** Not available

**Decomposition Temperature:** Not available

**Solubility in water:** 39.6% at 176F.

**Specific Gravity/Density:** 1.53(Water=1)

**Molecular Formula:** NH<sub>4</sub>Cl

**Molecular Weight:** 53.49

### Section 10 - Stability and Reactivity

**Chemical Stability:** Hygroscopic: absorbs moisture or water from the air.

**Conditions to Avoid:** Incompatible materials, excess heat, exposure to moist air or water.

**Incompatibilities with Other Materials:** Not available

**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, ammonia and hydrochloric acid fumes.



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## AMMONIUM CHLORIDE

**Hazardous Polymerization** May occur.

### Section 11 - Toxicological Information

CAS# 12125-02-9: BP4550000 BP4570000

**RTECS#:**

**LD50/LC50:**

RTECS:

**CAS# 12125-02-9:** Draize test, rabbit, eye: 500 mg/24H Mild;

Draize test, rabbit, eye: 100 mg Severe;

Oral, mouse: LD50 = 1300 mg/kg;

Oral, rat: LD50 = 1650 mg/kg;

**Carcinogenicity:** Ammonium chloride - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

**Other:** See actual entry in RTECS for complete information.

### Section 12 - Ecological Information

**Other:** No information available.

### Section 13 - Disposal Considerations

Products considered hazardous for supply are classified as Special Waste and the disposal of such chemicals is covered by regulations which may vary according to location. Contact a specialist disposal company or the local authority or advice. Empty containers must be decontaminated before returning for recycling.

### Section 14 - Transport Information

	IATA	IMO	RID/ADR
<b>Shipping Name:</b>	Not regulated.	Not regulated.	Not regulated.
<b>Hazard Class:</b>			
<b>UN Number:</b>			
<b>Packing Group:</b>			

USA RQ: CAS# 12125 -02-9: 5000 lb final RQ; 2270 kg final RQ

### Section 15 - Regulatory Information

#### European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XN

Risk Phrases:

R 22 Harmful if swallowed. R 36 Irritating to eyes.

Safety Phrases:

S 22 Do not breathe dust.

S 24/25 Avoid contact with skin and eyes.



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# AMMONIUM CHLORIDE

WGK (Water Danger/Protection)

CAS# 12125-02-9: 1

Canada

CAS# 12125-02-9 is listed on Canada's DSL List

### US Federal

TSCA

CAS# 12125-02-9 is listed on the TSCA  
Inventory.