

Safety Data Sheet

Ammonium Chloride

Analytical chemical / laboratory reagent

SECTION 1: Identification of the substance and of the company

Product identifier	Ammonium Chloride
Chemical name	Ammonium chloride
CAS number	12125-02-9
EC number	235-186-4
Relevant identified uses	Laboratory reagent; analytical and technical applications
Uses advised against	Human/animal consumption; food, supplement, cosmetic, medical, diagnostic or therapeutic use
Supplier	Rexar, Genestetstraat 3, 2394 XK Hazerswoude-Rijndijk, Netherlands
Contact	info@rexar.nl www.rexar.nl

SECTION 2: Hazards identification

Harmonised EU CLP classification: Acute Tox. 4 (oral); Eye Irrit. 2.

Signal word: Warning.

Hazard statements: H302 Harmful if swallowed. H319 Causes serious eye irritation.

Precautions: Avoid ingestion and dust exposure. Wash thoroughly after handling. Wear suitable eye protection and laboratory gloves.

SECTION 3: Composition / information on ingredients

Substance	Ammonium chloride
CAS number	12125-02-9
EC number	235-186-4
PubChem CID	25517
Molecular formula	NH ₄ Cl
Molecular weight	53.49 g/mol
Purity	Lot-specific; refer to supplier documentation / COA

SECTION 4: First-aid measures

Inhalation: Move to fresh air and seek medical advice if symptoms persist.

Skin: Wash with soap and water.

Eyes: Rinse cautiously with water for several minutes; remove contact lenses if easy to do. Continue rinsing and seek medical advice if irritation persists.

Ingestion: Rinse mouth. Seek medical attention if unwell.

SECTION 5: Fire-fighting measures

Not normally combustible. Use extinguishing media appropriate to the surrounding fire. Strong heating may release ammonia, hydrogen chloride and nitrogen-containing decomposition products. Use suitable protective equipment.

SECTION 6: Accidental release measures

Avoid dust formation and inhalation. Ventilate. Wear suitable gloves and eye protection. Collect mechanically into a labelled container and prevent uncontrolled release.

SECTION 7: Handling and storage

Handle using good laboratory practice. Avoid breathing dust, ingestion and eye contact. Keep tightly closed and dry in a well-ventilated area away from incompatible materials.

SECTION 8: Exposure controls / personal protection

Use adequate ventilation. Wear suitable laboratory gloves, protective clothing and safety glasses/goggles. Where dust cannot otherwise be controlled, use appropriate particulate respiratory protection.

SECTION 9: Physical and chemical properties

Appearance	White or colourless crystalline solid
Odour	Odourless
Molecular formula	NH ₄ Cl
Molecular weight	53.49 g/mol
Density	Approximately 1.52 g/cm ³
Water solubility	Approximately 383 g/L at 25 °C
Thermal behaviour	Sublimes/decomposes at approximately 338 °C at atmospheric pressure
Flammability	Not normally flammable

SECTION 10: Stability and reactivity

Stable under recommended storage conditions. Avoid excessive heat and incompatible materials. Strong heating may generate ammonia and hydrogen chloride vapours.

SECTION 11: Toxicological information

Harmful if swallowed and causes serious eye irritation according to the harmonised EU CLP classification. Dust may also irritate the respiratory tract. Refer to the current supplier SDS for complete grade-specific toxicological information.

SECTION 12: Ecological information

Avoid unnecessary environmental release. Refer to current supplier and regulatory documentation for detailed substance-specific ecological information.

SECTION 13: Disposal considerations

Dispose of unused material and contaminated packaging through an authorised chemical-waste route in accordance with applicable requirements. Avoid uncontrolled discharge.

SECTION 14: Transport information

Verify transport status against the exact supplied grade, quantity and current carrier requirements. This reference SDS does not assign transport classification without supplier- and route-specific confirmation.

SECTION 15: Regulatory information

Ammonium chloride (CAS 12125-02-9; EC 235-186-4; index 017-014-00-8) has a harmonised EU CLP classification of Acute Tox. 4 (oral) and Eye Irrit. 2, with H302 and H319.

SECTION 16: Other information

Revision date: 10 September 2026.

Identity reference: PubChem CID 25517; CAS 12125-02-9.

Hazard basis: harmonised EU CLP classification / ECHA regulatory information.

This SDS is a general laboratory safety reference and is not a certificate of analysis.