

DAIXI CHEMICAL CO., LIMITED
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SAFETY DATA SHEET

AMMONIUM CHLORIDE

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

Product name: Ammonium Chloride
Manufacturer: DAIXI CHEMICAL CO., LIMITED
Address: BEILOU ROAD, ZOUPING COUNTY, SHANDONG PROVINCE, CHINA
Emergency Phone: +86-543-4350121

SECTION 2 INFORMATION ON INGREDIENTS

Product name: Ammonium chloride
Molecular Formular: NH₄Cl

Ingredient	Concentration	CAS NO.
Ammonium chloride	=98.0%	12125-02-9
Water	=2%	7732- 18-5

SECTION 3 HAZARDS IDENTIFICATION

Symbol:



The signal word: Warning

Hazards Identification: This substance is considered to be non- hazardous for transport.

Appearance: colorless or white crystalline powder.

Target Organs: Gastrointestinal system, eyes .

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. Ammonium chloride fume may cause an asthma-like allergy . Future exposure may cause asthma attacks with shortness of breath, wheezing, coughing, and/or chest tightness .

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.

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 to 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.

Flash Point: Not available.

Autoignition Temperature: Not available.

Explosion Limits, Lower: Not available.

Upper: Not available.

NFPA Rating: (estimated) Health: 2; Flammability: 0; Instability: 1

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 CONTROL /PPE

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

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Ammonium chloride	10 mg/m ³ TWA (fume); 20 mg/m ³ STEL (fume)	10 mg/m ³ TWA (fume)	none listed

OSHA Vacated PELs: Ammonium chloride: 10 mg/m³ TWA

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

SECTION 9 PHYSICAL /CHEMICAL PROPERTIES

Physical State: Crystalline powder

Appearance: colorless or white

Odor: odorless

pH: 5.0 (10% sol at 25C)

Vapor Pressure: 1 mm Hg @ 160.4C

Vapor Density: Not available.

Evaporation Rate: Negligible.

Viscosity: Not available.

Boiling Point: 520 deg C

Freezing/Melting Point:328 deg C

Decomposition Temperature: Not available.

Solubility: 39.6% at 176F.

Specific Gravity/Density:1.53 (Water=1)

Molecular Formula: NH₄Cl

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: Acids, bases, silver salts, bromine trifluoride, nitrates, potassium chlorates, carbonates, bromine pentafluoride, lead salts.

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

Hazardous Polymerization: May occur.

SECTION 11 TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 12125-02-9 : BP4550000; BP4570000

LD50/LC50:

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:

CAS# 12125-02-9 : Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: No information found

Teratogenicity: No information found

Reproductive Effects: No information found

Mutagenicity: Mutagenic effects have occurred in experimental animals.

Neurotoxicity: No information found

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity: No data available. No information available.

Environmental: No information available.

Physical: No information available.

Other: Do not empty into drains.

SECTION 13 DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

SECTION 14 TRANSPORT INFORMATION

IMDG/IMO: Not regulated

Considered non-hazardous material according to UN Orange and international transport codes e.g. RID (rail), ADR (road) and IMDG (sea).

IMO

Non-Hazardous for Sea Transport: Non- hazardous for sea transport.

UN Number: None

SECTION 15 REGULATORY INFORMATION

EU Classification and Labeling Information:

This chemical substance is not classified in the Annex I of Directive 67/548/EEC .

SECTION 16 OTHER INFORMATION

Revision: 2026-01- 10