凯达颐盛有限公司
香港九龙尖沙咀广东道33号中港城3座12层1203
KAIDA YISHENG CO., LTD.
1203, 12/F Tower 3, China Hong Kong City, 33 Canton Road,
Tsimshatsui, Kowloon, Hong Kong
Tel: (852) 3589 3359 Fax: (852) 3589 3399 www.kaidayisheng.com info@kaidayisheng.com

凯达颐盛
KAIDA YISHENG
SUPPLYING CHEMICALS

原材料说明 SPECIFICATION CERTIFICATE

原材料 Material: **AMMONIUM CHLORIDE**

批号 Batch No: **PAC008** 分子式 Formula: **NH4Cl** 分子量 Molecular Weight: **53.49**

外观 Appearance: **WHITE POWDER**

包装 Package: **IN 25KG PLASTIC WOVEN BAG**

CERTIFICATE OF ANALYSIS

Items	Specifications	Results
NH_4Cl Content (On Dry Basis)	99.5%min	99.52%
Moisture Content	0.7%max	0.50%
Iron(Fe)	0.001%max	<0.001%
Heavy Metal (As Pb) Content	0.0005%max	<0.0005%
Sulfate Content	0.02%max	0.019%
Residue on Ignition	0.4%max	0.30%
pH Value (100g/L,25℃)	4.0-5.8	5.0

凯达颐盛有限公司
KAIDA YISHENG CO.,LTD.

所有消息都是在不为其准确性所产生的义务、结束或者使用者的风险承担责任的情况下如实提供的。
因此这些信息 并不能成使用者侵犯版权或者超许可经营构成保护。
All information is offered in good faith, without guarantee or obligation by the accuracy or sufficiency thereof, or the result obtained and is accepted at user's risk. Nothing herein shall be construed as a recommendation for uses that infringe valid patents or as extending a

凯达颐盛有限公司
香港九龙尖沙咀广东道 33 号中港城 3 座 12 层 1203
KAIDA YISHENG CO., LTD.
1203, 12/F Tower 3, China Hong Kong City, 33 Canton Road,
Tsimshatsui, Kowloon, Hong Kong
Tel: (852) 3589 3359 Fax: (852) 3589 3399 www.kaidayisheng.com info@kaidayisheng.com

凯达颐盛
KAIDA YISHENG
SUPPLYING CHEMICALS

MATERIAL SAFETY DATA SHEET

凯达颐盛有限公
KAIDA YISHENG CO.,

Section 1 - Chemical Product and Company Identification

MSDS Name: Ammonium Chloride
Catalog Numbers: AC9470862, S70609, S70609-1, S70609-2, S70609-3, A649 3, A649 500, A649-3, A649-500, A64910KG, A6493, A649500, A661 10, A661 3, A661 500, A661-10, A661-3, A661-500, A66110, A6613, A661500, NC9483471, NC9483488, NC9528216, NC9570959, S706091, S706092, S706093, XXA649EP10KG
Synonyms: Ammonium Chloratum, Ammonium Chloridum, Ammonium Muriate, Sal Ammonia, Salmiac.
Company Identification: Kaida Yisheng Co., LTD.
1203, 12/F Tower 3, China Hong Kong City, 33 Canton Road, Tsimshatsui, Kowloon, Hong Kong
For information, call: +852-3589-3359
Emergency Number: +86-22-83713175

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
12125-02-9	Ammonium chloride	>99.0	235-186-4

Hazard Symbols: XN
Risk Phrases: 22 36

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: colorless or white. **Caution!** May cause respiratory and digestive tract irritation. May be harmful if swallowed. Causes eye irritation. May cause skin irritation.
Target Organs: None.

Potential Health Effects Eye:
Causes eye irritation. **Skin:** May cause skin irritation.
Ingestion: May cause irritation of the digestive tract. May cause systemic toxicity with acidosis. May be harmful if swallowed.
Inhalation: If heated, dust or fume may cause respiratory tract irritation.
Chronic: Prolonged or repeated skin contact may cause dermatitis.

Section 4 - First Aid Measures

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

Skin: Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.
Ingestion: Induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.
Inhalation: Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.
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. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water spray to keep fire-exposed containers cool. Substance is noncombustible. Containers may explode in the heat of a fire. May polymerize explosively when involved in a fire.
Extinguishing Media: For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. Substance is noncombustible; use agent most appropriate to extinguish surrounding fire. For large fires, use water spray, fog or alcohol-resistant foam. Cool containers with flooding quantities of water until well after fire is out.

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. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provideventilation.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Do not get in eyes, on skin, or on clothing. Keep container tightly closed. Avoid ingestion and inhalation.
Storage: Store in a cool, dry, well-ventilated area away from incompatible substances. Store below 40°C.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.
Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Ammonium chloride	10 mg/m3 TWA; 20 mg/m3 STEL	10 mg/m3 TWA	none listed

OSHA Vacated PELs: Ammonium chloride: 10 mg/m3 TWA; 20 mg/m3 STEL
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 impervious gloves.
Clothing: Wear appropriate protective clothing to prevent skin exposure.
Respirators: Follow the OSHA respirator regulations found in 29CFR 1910.134 or European

Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

Section 9 - Physical and Chemical Properties

Physical State: Solid **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(sublimes)
Freezing/Melting Point: 328 deg C
Autoignition Temperature: Not available.
Flash Point: Not available.
Decomposition Temperature: Not available.
NFPA Rating: (estimated) Health: 1; Flammability: 0; Reactivity: 0
Explosion Limits, Lower: Not available.
Upper: Not available.
Solubility: 39.6% at 176F.
Specific Gravity/Density: 1.53 (Water=1)
Molecular Formula: NH_4Cl
Molecular Weight: 53.4877

Section 10 - Stability and Reactivity

Chemical Stability: Stable at room temperature in closed containers under normal storage and handling conditions.
Conditions to Avoid: Incompatible materials, excess heat.
Incompatibilities with Other Materials: Acids, alkalis, and their associated carbonates. Substance reacts with lead and silver salts to form a fulminating compound. Substance reacts with ammonium compounds, bromine pentafluoride, bromine trifluoride, hydrogen cyanide, iodine heptafluoride, nitrates, and potassium chlorate.
Hazardous Decomposition Products: Irritating and toxic fumes and gases, ammonia and hydrochloric acid fumes.
Hazardous Polymerization: May occur.

Section 11 - Toxicological Information

RTECS#:
CAS# 12125-02-9: BP4550000
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; <BR.

Carcinogenicity:
CAS# 12125-02-9: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.
Epidemiology: No information available. **Teratogenicity:**
No information available. **Reproductive Effects:** No
information available. **Neurotoxicity:** No information
available.

Mutagenicity: Cytogenetic analysis: hamster fibroblast, 400 mg/L.
Other Studies: None.

Section 12 - Ecological Information

Ecotoxicity: Fish: LC50 = 109.0 mg/L; 48 Hr.; Static conditions Sunfish (fresh water) TLm=6 ppm/96H
Environmental: No information reported.
Physical: No information available.
Other: None.

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

Not regulated by IMDG/IMO
The substance has not been listed in <<International Maritime Dangerous Goods Code>>
Not subject to transport regulations

Section 15 - Regulatory Information

US FEDERAL

TSCA
CAS# 12125-02-9 is listed on the TSCA inventory.
Health & Safety Reporting List
None of the chemicals are on the Health & Safety Reporting List.
Chemical Test Rules
None of the chemicals in this product are under a Chemical Test Rule.
Section 12b
None of the chemicals are listed under TSCA Section 12b.
TSCA Significant New Use Rule
None of the chemicals in this material have a SNUR under TSCA.
SARA

Section 302 (RQ)
CAS# 12125-02-9: final RQ = 5000 pounds (2270 kg)
Section 302 (TPQ)
None of the chemicals in this product have a TPQ.
SARA Codes
CAS # 12125-02-9: acute, chronic.
Section 313
No chemicals are reportable under Section 313.
Clean Air Act:
This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depletors. This material does not contain any Class 2 Ozone depletors.
Clean Water Act:

CAS# 12125-02-9 is listed as a Hazardous Substance under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 12125-02-9 can be found on the following state right to know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.

California No Significant Risk Level: None of the chemicals in this product are listed.

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.

WGK (Water Danger/Protection)

CAS# 12125-02-9: 1

Canada

CAS# 12125-02-9 is listed on Canada's DSL List. CAS# 12125-02-9 is listed on Canada's DSL List. This product has a WHMIS classification of D2B.

CAS# 12125-02-9 is listed on Canada's Ingredient Disclosure List.

Exposure Limits

CAS# 12125-02-9: OEL-ARAB Republic of Egypt:TWA 10 mg/m3 (fume) OEL -AUSTRALIA:TWA 10 mg/m3;STEL 20 mg/m3 (fume) OEL-BELGIUM:TWA 10 mg/m3 ;STEL 20 mg/m3 (fume) OEL-DENMARK:TWA 10 mg/m3 (fume) OEL-FRANCE:TWA 10 mg/m3 (fume) OEL-THE NETHERLANDS:TWA 10 mg/m3 (fume) OEL-RUSSIA: STEL 10 mg/m3 (fume) OEL-SWITZERLAND:TWA 6 mg/m3 (fume) OEL-UNITED K INGDOM:TWA 10 mg/m3;STEL 20 mg/m3 (fume) OEL IN BULGARIA, COLOMBIA, J ORDAN, KOREA check ACGIH TLV OEL IN NEW ZEALAND, SINGAPORE, VIETNAM c heck ACGI TLV

Section 16 - Additional Information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.

凯达颐盛有限公司
KAIDA YISHENG CO.,LTD.