



Canadian Agri Products(USA) Corp.

Chemicals to Trade, Experience to Remember

Material Safety Data Sheet (MSDS)

MAPLE AMMONIUM CHLORIDE

1. Identification of the substance	PRODUCT NAME: Ammonium Chloride CHEMICAL FORMULA: NH ₄ Cl MOLECULAR WEIGHT: 53.49 CAS NO.: 12125-02-9
2. Composition /information on ingredients	SUBSTANCE INGREDIENTS Ammonium Chloride % (BY WEIGHT) 99-100% CAS NUMBER 12125-02-9 CLASSIFICATION Not regulated (China GB 12268-2005)
3. Hazards identification	HAZARD CLASS: Not classified/regulated as dangerous goods (China GB 6944-2005 and GB 12268-2005), No regulated in IMDG CODE 2006Edition and No regulated in DOT (United States) ROUTES OF ENTRY: Inhalation, ingestion, eye contact. HEALTH HAZARDS: May cause eye and skin irritation. ENVIRONMENT HAZARDS: Not regulated. FIRE/EXPLOSION HAZARDS: Not classified as fire and explosion hazards.
4. First aid measures	SKIN: Flush skin with plenty of water for a few minutes EYES: Flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation occurs. INGESTION: DO NOT induce vomiting unless directed to do so by medical personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Seek medical attention. INHALATION: Remove to fresh air, allowing the victim to rest in a well ventilated area, seek immediate medical attention. Call a physician.
5. Fire fighting measures	EXTINGUISHING MEDIA: This product does not burn or support combustion. Use extinguishing media appropriate for surrounding fire. Use dry chemical powder for small fire; and water spray, fog or foam for big fire. HAZARDS: This product is non-flammable. PROTECTION: Wear a self-contained breathing apparatus with a full face-piece operated in the positive pressure demand mode
6. Accidental release measures	PERSONAL PRECAUTIONS: Wear protective equipment to prevent skin and eye contamination and inhalation of dust.



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	<p>ENVIRONMENTAL PRECAUTIONS:</p> <p>DISPOSAL METHODS:</p>	<p>Prevent entry into sewers or streams and other water bodies.</p> <p>Use appropriate tools to put the spilled material into a sealed container and hold for reuse or later disposal according to local and regional authority requirements.</p>
<p>7. Handling and storage</p>	<p>HANDLING:</p> <p>STORAGE:</p> <p>PRECAUTIONS:</p>	<p>Avoid breathing dust. Avoid contacting skin, eyes and clothing. Use with adequate ventilation. No smoking, eating and drinking water at workplace. Avoid prolonged or repeated exposure.</p> <p>Store in dry place, keep away from heat, source of ignition, moisture.</p> <p>Please pay attention to SECTION 10 CONDITIONS TO AVOID and MATERIALS TO AVOID.</p>
<p>8. Exposure controls/personal protection</p>	<p>EXPOSURE LIMITS:</p> <p>ENGINEERING CONTROLS:</p> <p>RESPIRATORY PROTECTION:</p> <p>HAND PROTECTION:</p> <p>EYE PROTECTION:</p> <p>SKIN AND BODY PROTECTION:</p> <p>HYGIENE PRECAUTIONS:</p>	<p>- CHINA GBZ 2-2002: No data for this product. - OSHA PEL: 20(mg/m³) - ACGIH TLV: 20(mg/m³)</p> <p>Handling and storage area requires safety shower and eye bath. Use in well ventilated area to minimize exposure, or use process enclosures, local exhaust ventilation to keep airborne levels below exposure limit.</p> <p>Dustproof respirators. Protective gloves. Safety glasses. Goggles. Full suit, boot.</p> <p>No smoking, eating and drinking water at workplace. Washing hands before eating. Taking bath after work.</p>
<p>9. Physical and chemical properties</p>	<p>PHYSICAL STATE:</p> <p>COLOUR:</p> <p>ODOUR:</p> <p>pH VALUE:</p> <p>MELTING POINT:</p> <p>BOILING POINT:</p> <p>DECOMPOSITION TEMPERATURE:</p> <p>FLASH POINT:</p> <p>AUTOIGNITION TEMPERATURE:</p> <p>EXPLOSION PROPERTIES:</p> <p>VAPOUR PRESSURE:</p> <p>VAPOUR DENSITY(Air=1):</p> <p>DENSITY/SPECIFIC GRAVITY (Water=1):</p> <p>SOLUBILITY:</p> <p>OCTANOL/WATER PARTITION COEFFICIENT:</p>	<p>Solid</p> <p>White</p> <p>Odorless</p> <p>5.5</p> <p>520°C</p> <p>N/A</p> <p>338°C</p> <p>N/A</p> <p>N/A</p> <p>No explosion property.</p> <p>N/A</p> <p>N/A</p> <p>N/A</p> <p>N/A</p> <p>Soluble in water.</p> <p>N/A</p>
<p>10. Stability and reactivity</p>	<p>STABILITY:</p> <p>CONDITIONS TO AVOID:</p> <p>MATERIALS TO AVOID:</p> <p>HAZARDOUS</p>	<p>Stable under ordinary conditions of use and storage</p> <p>Incompatible materials, high temperatures, moisture.</p> <p>Strong oxidizing agents.</p>



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	<p>POLYMERIZATION: Will not occur.</p> <p>HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, calcium oxide.</p>
11. Toxicological information	<p>ACUTE TOXICITY: Acute Oral LD50 (mouse): 1300 mg/kg Acute Oral LD50 (rat): 1650 mg/kg</p> <p>CHRONIC EXPOSURE: N/A</p> <p>TERATOGENICITY: N/A</p> <p>PRODUCTION TOXICITY: N/A</p> <p>MUTAGENICITY: N/A</p> <p>CARCINOGENICITY: Not listed as a suspected / confirmed carcinogen by IARC, NTP.</p>
12. Ecological information	<p>OVERVIEW: Don't allow undiluted product or large quantities to penetrate into ground water, water bodies or sewage system.</p> <p>BIODEGRADABILITY: N/A</p> <p>ECOTOXICITY: N/A</p>
13. Disposal considerations	<p>METHODS OF DISPOSAL: Dispose of according to all applicable governments' regulations.</p> <p>CONTAMINATED PACKAGING: Empty packaging should be recycled or disposed of through an approved waste management facility.</p>
14. Transport information	<p>PROPER SHIPPING NAME: Not regulated in China GB 6944-2005 and GB 12268-2005; No regulated in IMDG CODE 2006Edition; No regulated in DOT (United States)</p> <p>UN NO.: N/A</p> <p>HAZARD CLASS (IMDG): N/A</p> <p>PACKING GROUP: N/A</p> <p>MARINE POLLUTANT: N/A</p>
15. Regulatory information	<p>China: Not listed as dangerous goods by GB 12268-2005.</p> <p>International: Attention shall be paid to any applicable national regulations as to the hazard and safety information of this product.</p>
16. Other information	N/P

THE INFORMATION IN THIS MSDS RELATES TO THIS SPECIFIC MATERIAL. IT MAY NOT BE VALID FOR THIS MATERIAL IF USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS. IT IS THE USERS' RESPONSIBILITY TO SATISFY THEMSELVES AS TO THE SUITABILITY AND COMPLETENESS OF THIS INFORMATION FOR THEIR OWN PARTICULAR USE.



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All non-emergency questions should be
Directed to Customer Service at

972-403-7444

24 hour emergency Telephone: Chemtrec 800-424-9300
National response in Canada: Canutec 613-996-6666
Outside US & Canada: Chemtrec: 202-483-7616

Note: Chemtrec and Canutec emergency numbers
to be used only in the event of chemical
emergencies involving a spill, leak, exposure or
accident involving chemicals.