

Safety Data Sheet (SDS)

AMMONIUM CHLORIDE

1. Identification of the Substance	PRODUCT NAME: Ammonium Chloride DISTRIBUTOR: EcoFusion Inc., PO Box 251408. Plano, TX 75025 – 1408 (USA) TEL: +1 972 403 7449 FAX: +1 214 291 5348 EMERGENCY: CHEMTREC 800 424 9300
2. Hazards Identification	HAZARD CLASS: Not classified/regulated as dangerous goods (China GB 6944-2005 and GB 12268-2005), No regulated in IMDG CODE 2006 Edition 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.
3. Composition / Information on Ingredients	CHEMICAL FORMULA: NH ₄ Cl MOLECULAR WEIGHT: 53.49 CAS NO.: 12125-02-9 INGREDIENTS: Ammonium Chloride % (BY WEIGHT): 99-100% CLASSIFICATION: Not regulated (China GB 12268-2005)
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. ENVIRONMENTAL PRECAUTIONS: Prevent entry into sewers or streams and other water bodies. DISPOSAL METHODS: 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.
7. Handling and Storage	HANDLING: 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. STORAGE: Store in dry place, keep away from heat, source of ignition, moisture.

	<p>PRECAUTIONS: 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> <ul style="list-style-type: none"> - CHINA GBZ 2-2002: No data for this product. - OSHA PEL: 20(mg/m³) - ACGIH TLV: 20(mg/m³) <p>ENGINEERING CONTROLS: 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>RESPIRATORY PROTECTION: Dustproof respirators.</p> <p>HAND PROTECTION: Protective gloves.</p> <p>EYE PROTECTION: Safety glasses. Goggles.</p> <p>SKIN AND BODY PROTECTION: Full suit, boot.</p> <p>HYGIENE PRECAUTIONS: 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: Solid</p> <p>COLOUR: White</p> <p>ODOUR: Odorless</p> <p>pH VALUE: 5.5</p> <p>MELTING POINT: 520° C</p> <p>BOILING POINT: N/A</p> <p>DECOMPOSITION TEMPERATURE: 338° C</p> <p>FLASH POINT: N/A</p> <p>AUTOIGNITION TEMPERATURE: N/A</p> <p>EXPLOSION PROPERTIES: N/A</p> <p>VAPOUR PRESSURE: N/A</p> <p>VAPOUR DENSITY(Air=1): N/A</p> <p>DENSITY/SPECIFIC GRAVITY (Water=1): N/A</p> <p>SOLUBILITY: Soluble in water</p> <p>OCTANOL/WATER PARTITION COEFFICIENT: N/A</p>
<p>10. Stability and Reactivity</p>	<p>STABILITY: Stable under ordinary conditions of use and storage</p> <p>CONDITIONS TO AVOID: Incompatible materials, high temperatures, moisture</p> <p>MATERIALS TO AVOID: Strong oxidizing agents</p> <p>HAZARDOUS POLYMERIZATION: Will not occur</p> <p>HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, calcium oxide</p>
<p>11. Toxicological Information</p>	<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>
<p>12. Ecological Information</p>	<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>
<p>13. Disposal Considerations</p>	<p>METHODS OF DISPOSAL: Dispose of according to all applicable governments' regulations.</p> <p>CONTAMINATED PACKAGING: Empty packaging should be</p>

	recycled or disposed of through an approved waste management facility.
14. Transport Information	PROPER SHIPPING NAME: Not regulated in China GB 6944-2005 and GB 12268-2005; Not regulated in IMDG CODE 2006Edition; Not regulated in DOT (United States) UN NO.: N/A HAZARD CLASS (IMDG): N/A PACKING GROUP: N/A MARINE POLLUTANT: N/A
15. Regulatory Information	China: Not listed as dangerous goods by GB 12268-2005. International: Attention shall be paid to any applicable national regulations as to the hazard and safety information of this product.
16. Other Information	N/A

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.

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

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.