



Safety Data Sheet

1. Identification

Common Name/ Trade Name:	Ammonium Chloride	Revision Date:	November 18, 2015
Material Uses:	Nutrition Source for Nitrifying Bacteria	Product Number :	N/A
Supplier:	PENTAIR AQUATIC ECO-SYSTEMS 2395 APOPKA BLVD. APOPKA, FL 32703	Week Days: (Monday – Friday 8-5): (407) 886-3939	CHEMTREC (7 days a week, 24 hours a day) (800) 424-9300

In Case of Emergency:

2. Hazard(s) Identification

Classification: Acute Toxicity, Oral, Category 4

Labeling

Symbol:



Signal word: WARNING

Hazard Statement: H302 Harmful if swallowed.

Precautionary Statements:

- P102 Keep out of reach of children.
- P103 Read label before use.
- P264 Wash thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301 + P312 + P330 IF SWALLOWED: Call a Poison Center or doctor if you feel unwell. Rinse mouth.

Other hazard information:

Physical/Chemical Hazards: No additional hazards
 Health Hazards: No additional hazards
 Environmental Hazards: No additional hazards

3. Composition and Information on Ingredients

<u>Chemical Identity</u>	<u>Numbers of Identity</u>	<u>% by Weight</u>
Ammonium Chloride	CAS # 12125-002-9	98 - 100

4. First Aid Measures

Inhalation:	If inhaled, remove from area to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek medical attention.
Skin Contact:	Remove contaminated clothing and shoes. Wash affected area with soap and water. If irritation develops and persists, seek medical attention.
Eye Contact:	Immediately flush eyes thoroughly with large amounts of water for a minimum of 15 minutes, while holding eyelids open. If irritation or adverse symptoms develop, seek medical attention.
Ingestion:	If victim is conscious and alert, rinse mouth out and give 1/2 to 1 cup of water to dilute material. If gastric irritation develops, seek medical attention.

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5. Fire and Explosion Data

General Information:	This material is not flammable or combustible.
Suitable Extinguishing Media:	Use suitable extinguishing media for surrounding fire.
Unsuitable Extinguishing Media:	None known.
Specific Hazards in case of fire:	Irritating and toxic gases may be generated by thermal decomposition.
Special Protective Equipment and Precaution for Fire Fighters:	Full protective clothing and approved self-contained breathing apparatus required for fire personnel.

6. Accidental Release Measures

Personal precautions:	Avoid skin and eye contact. Avoid breathing dust. Use appropriate protective equipment, see section 8.
Environmental precautions:	Prevent from entering sewers and waterways.
Methods and materials for containment and cleaning up:	Ventilate area. Isolate and contain spill. Use dry methods to collect spilled materials. Avoid generating dust. Place material in suitable container for reclamation or disposal.

7. Handling and Storage

Precautions for safe handling:	Avoid direct skin and eye contact with material. Avoid breathing dust. Use proper personal protective equipment, see section 8. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.
Conditions for safe storage, including incompatibilities:	Keep container tightly closed. Store in a cool, dry and well ventilated location. Keep away from heat. Keep away from moisture. Store away from strong acids.

8. Exposure Controls/Personal Protection

Information on the system design:

Exposure Limits:	Component Name (CAS-No.)	Reference	Limit Values
	Ammonium Chloride CAS# 12125-02-9	ACGIH (TWA)	10 mg/m ³
		ACGIH (STEL)	20 mg/m ³
		NIOSH (REL)	10 mg/m ³
		NIOSH (STEL)	20 mg/m ³
OSHA (PEL)		Not established	

Ventilation: Use local exhaust ventilation or other engineering controls to keep airborne dust levels below exposure limits.

Respiratory protection: Use NIOSH/MSHA approved respirator in case of inadequate ventilation.

Eye protection: Safety glasses with side shields or goggles.

Skin protection: Chemical resistant gloves.

9. Physical and Chemical Properties

Flashpoint:	Not determined	Lower Flammability Limit:	Not determined
Auto ignition Temperature:	Not determined	Upper Flammability Limit:	Not determined
Boiling Point:	Not determined	Specific Gravity:	2.509
Melting Point:	Not determined	% Volatile:	Not determined
Vapor Pressure, mm _{Hg} :	Not applicable	Evaporation Rate (Water=1):	Not applicable
Vapor Density (air=1):	Not available	Viscosity:	Not applicable
%Solubility in Water:	Soluble	Octanol/Water Partition Coefficient:	Not applicable
Pour Point:	NA	pH (1% solution):	4.5 – 5.5
Odor/Appearance:	Odorless/White solid		

10. Stability and Reactivity Data

Chemical Stability:	Stable under recommended conditions of use and storage.
Possibility of hazardous reactions:	Reacts with strong acids.
Conditions to avoid:	Extremely high or low temperatures and exposure to moisture.
Materials to avoid:	Strong acids, strong bases, strong oxidizing agents, aluminum powder, fluorine, and molten lithium.
Hazardous Decomposition Products:	Thermal decomposition may release oxides of sodium and oxides of carbon.

11. Toxicological Information

Routes of Exposure:	Skin contact, eye contact, inhalation, ingestion.
Acute Toxicity:	LD ₅₀ : 1,650 mg/kg, oral, rat
Subchronic/Chronic Toxicity:	No information available.

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12. Ecological Information

Persistence and degradability: No data available.

Bio-accumulative potential: No data available.

Mobility: No data available.

Aquatic Toxicity:

Test	Results	Comments
Rainbow trout (<i>Oncorhynchus mykiss</i>)	LC ₅₀ : 3.98 mg/L, 96 hour	
Water flea (<i>Daphnia magna</i>)	EC ₅₀ : 161 mg/L, 48 hour	

13. Disposal Considerations

Waste Disposal: Disposal should be made in accordance with federal, state, and local regulations.

14. Transport Information

US DOT Classification: Not dangerous goods.

15. Other Regulatory Information

Inventory Status: Components of this product are on the TSCA inventory or are exempt.

US Regulations:

SARA 302 EHS Chemicals: This product does not contain ingredients listed as an Extremely Hazardous Substance.

SARA (311/312) HAZARD CATEGORIES: Immediate (Acute) Health Hazard

SARA 313: This product does not contain ingredients on the List of Toxic Chemicals

16. Other Information

Abbreviations and acronyms:

ACGIH: American Conference of Governmental Industrial Hygienists
CAS: Chemical Abstract Service
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act
EC₅₀: Effective Concentration, half maximal
EHS: Extremely Hazardous Substances
EPA: Environmental Protection Agency
GHS: Globally Harmonized System
HMIS: Hazardous Materials Identification System
LC₅₀: Lethal Concentration, half maximal
LD₅₀: Lethal Dose, half maximal
mg/Kg: Milligrams per Kilogram
mg/L: Milligrams per Liter
mg/m³: Milligrams per Cubic Meter
NFPA: National Fire Protection Association
NIOSH: National Institute for Occupational Safety and Health
OECD: Organization for Economic Co-operation and Development
OSHA: Occupational Safety and Health Administration
PEL: Permissible Exposure Limit
PPE: Personal Protective Equipment
REL: Recommended Exposure Limit
SARA: Superfund Amendments and Reauthorization Act
STEL: Short-term exposure limit
TSCA: Toxic Substances Control Act
TWA: Time weighted average

Additional information:

HMIS (U.S.A.): Health 2, Flammability 0, Reactivity 0, Personal Protection B
NFPA (U.S.A.): Health 2, Flammability 0, Reactivity 0

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End of SDS