

1. Identification

Common Name/ Trade Name: **Fritz ProAquatics Ammonium Chloride**
 Material Uses: Nutrition Source for Nitrifying Bacteria

Revision Date: May 13, 2019
 Product Number: N/A

Supplier: FRITZ INDUSTRIES, INC.
 500 SAM HOUSTON ROAD
 MESQUITE, TX 75149

In Case of Emergency:

Week Days: CHEMTREC
 (Monday – Friday 8-5): (7 days a week, 24 hours a day)
 (972) 329-8800 (800) 424-9300
 (800) 955-1323

2. Hazard(s) Identification

Classification: Acute Toxicity, Oral, Category 4
 Serious Eye Damage/Eye Irritation, Category 2

Labeling:

Symbol:



Signal Word: WARNING
 Hazard Statement: H302 Harmful if swallowed.
 H319 Causes serious eye irritation

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.
 P314 Get medical advice/attention if you feel unwell.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P3374 + P313 IF eye irritation persists: Get medical advice/attention.

Other Hazard Information:

Physical/Chemical Hazards: No additional hazards.
 Health Hazards: May cause skin irritation. Breathing fumes may irritate respiratory tract.
 Environmental Hazards: No additional hazards.

3. Composition and Information on Ingredients

Chemical Identity

Ammonium Chloride

Numbers of Identity

CAS # 12125-02-9

% by Weight

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 while washing affected areas 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.

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 fumes/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 fumes/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

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: If ventilation is inadequate, use a MSHA/NIOSH approved respirator that meets with OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements.

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 acids to release hydrogen chloride. Reacts with bases to release ammonia.
Conditions to Avoid: Extremely high 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 hydrogen chloride, ammonia gas, oxides of sodium and oxides of nitrogen.

11. Toxicological Information

Routes of Exposure: Skin contact, eye contact, inhalation, ingestion.
Acute Toxicity: Oral LD₅₀: 1,650 mg/kg, rat.
 Dermal LD₅₀: No data available.
 Inhalation LC₅₀: No data available.
Skin Corrosion/Irritation: May cause skin irritation. Based on available data, classification criteria are not met.
Serious Eye Damage/Irritation: Causes eye irritation.
Respiratory/Skin Sensitization: No data available.
Germ cell Mutagenicity: No data available.
Carcinogenicity: No data available.
Reproductive Toxicity: No data available.
STOT, SE: Inhalation of fumes may cause respiratory tract irritation. Based on available data, classification criteria are not met.
STOT, RE: No data available.
Other Chronic Effects: None known.

12. Ecological Information

Persistence and Degradability: No data available.
Bio-accumulative Potential: No data available.
Mobility: No data available.
Aquatic Toxicity:

Test	Results	Comments
Mountain Whitefish (<i>Prosopium williamsoni</i>)	LC ₅₀ : 46.27 mg/L, 96 hour	
Water flea (<i>Daphnia magna</i>)	EC ₅₀ : 136.6 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: Not regulated.
IATA: Not regulated.
IMDG: Not regulated.

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.
 EPA CERCLA/Superfund Reportable
 Spill Quantity: Ammonium Chloride (CAS# 12125-02-9), RQ: 5000 lbs.
 California Proposition 65: This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.



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
IATA: International Air Transport Association
IMDG: International Maritime Dangerous Goods
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
RQ: Reportable Quantity
SARA: Superfund Amendments and Reauthorization Act
STEL: Short-term exposure limit
STOT, RE: Specific Target Organ Toxicity, Repeated Exposure
STOT, SE: Specific Target Organ Toxicity, Single Exposure
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

Revisions: Reviewed SDS, updated sections 11 and 15. (05/13/2019)
Supersedes: May 19, 2015

Prepared by: Michael Carlo **Preparation date:** May 13, 2019

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End of SDS

