



CHATTEM CHEMICALS, INC.

SAFETY DATA SHEET

NUTRIENT SOLUTION

1. Identification of the Substance/Preparation and the Company/Undertaking

Substance or preparation trade name: NUTRIENT SOLUTION

Synonym/Chemical Name: Ammonium Chloride Solution

Recommended Use: Fertilizer

Company/undertaking name & address: Chattem Chemicals, Inc.
3708 St. Elmo Avenue, Chattanooga, TN 37409

Telephone: (423) 822-5000

Emergency telephone number: 1-800-424-9300 (Chemtrec)

2. Hazard(s) identification

Health Hazards Acute toxicity oral Category 4
 Skin corrosion/irritation Category 2
 Eye damage/irritation Category 2B

Label elements



Signal word **WARNING**

Hazard statements H302 – Harmful if swallowed.
 H315 – Causes skin irritation.
 H320 – Causes eye irritation.

Precautionary statements - Precaution

P264 – Wash exposed skin thoroughly after handling.
 P270 – Do not eat, drink, or smoke when handling this product.
 P280 – Wear protective gloves/protective clothing/eye protection/face protection.

Prevention

P301+P312 – If swallowed; call a poison center or doctor/physician.
 P330 – Rinse mouth.
 P302+P352 – If on skin, wash with plenty of soap and water.
 P321 – Specific treatment (see section 4 of this safety data sheet).
 P332+P313 – If skin irritation occurs; get medical attention advice.
 P362 – Take off contaminated clothing and wash before reuse.
 P337+P313 – If eye irritation persists; get medical attention.
 P305+P351+P338 – If in eyes; rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

3. Composition/information on ingredients

OCCUPATIONAL EXPOSURE LIMITS VAPOR PRESSURE

PERCENT COMPONENTS	CAS NUMBER	OSHA PEL	ACGIH TLV	OTHER	mm Hg @ TEMP	WEIGHT
GLYCINE	56-40-6	15 mg/m3	10 mg/m3	N/A	N/A	5-10
HMTA	100-97-0	N/A	N/A	N/A	N/A	1-5
AMMONIUM CHLORIDE	12125-02-9	10 mg/m3	10 mg/m3	N/A	1 320.7°F	20-25
WATER	7732-18-5	N/A	N/A	N/A	N/A	56-72
SODIUM CARBONATE	497-19-8	5 mg/m3	5 mg/m3	N/A	N/A	.06



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4. FIRST AID MEASURES

Skin contact: Wash with soap and water. Get medical attention if irritation occurs.

Inhalation: Remove to fresh air. Get medical attention if breathing difficulty occurs.

Eye contact: Rinse with large amounts of water for 15 minutes. Get medical attention if irritation occurs.

Ingestion: If large amounts were swallowed, get medical attention large amounts were swallowed, get medical attention.

5. FIRE AND EXPLOSION INFORMATION

Flammable Properties

Flash Point: N/A

Test Method: N/A

Flammable Limits in Air

Upper Limits: N/A

Lower Limits: N/A

Auto ignition Temperature: N/A

Test Method: N/A

Suitable extinguishing media: Appropriate Foam, Water Fog, Dry Chemical, and Carbon Dioxide.

Unsuitable extinguishing media: Use media appropriate for the original cause of the fire.

Unusual Fire and Explosion Conditions: None Known.

Required special protective equipment:

For Fire-Fighters: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Hazardous Combustion By-Products: Carbon Dioxide

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Wear appropriate personal protective equipment.

Environmental precautions: Keep out of streams, rivers, and sanitary sewers.

Methods for cleaning: Absorb with an industrial absorbent. Clean area with soap and water to remove any residues.

7. HANDLING AND STORAGE

Handling: Persons handling this material must adhere to training criteria in USDOT 49CFR172.700. Safety shower and eye wash stations should be available. Keep area well-ventilated. Wash thoroughly after handling.

Storage: Keep container closed. Store in a cool, dry, well-ventilated area.

8. EXPOSURE CONTROLS

Engineering measures: Local, mechanical exhaust recommended.

Respiratory Protection: Not normally required.

Eye protection: Safety/Splash Goggles

Hand protection: Protective Gloves. Latex or Neoprene.

Other Protective Clothing or Equipment: Optional, long sleeves for sensitive individuals.

Hygiene measures: Wash thoroughly after handling. Safety shower and eye wash station should be provided in the workplace.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Yellow liquid.

Odor: Slight ammonia odor.

pH: 6.75-8

Coating V.O.C.: N/A

Material V.O.C.: N/A

Boiling point: N/A

Melting point: N/A

Vapor Density: N/A

Specific Gravity (H₂O): 1.099

Solubility: Soluble



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Evaporation Rate: N/A

10. STABILITY AND REACTIVITY

Conditions to avoid: Stable under normal temperatures and conditions.

Materials to avoid: None Known.

Hazardous decomposition products: In conditions of extreme heat, the following decomposition products may be generated. Ammonia, CO₂, CO, HCl, NO_x, formaldehyde, and methylaminoacetic acid.

Hazardous Polymerization: Will not occur.

11. TOXOLOGICAL INFORMATION (will only print available data)

Product	Species	Test Results
Ammonium Chloride (12125-02-9) Acute Oral LD50	Rat	1410mg/kg

Primary Eye Irritation: May cause eye irritation.

Primary Skin Irritation: May cause skin irritation.

Acute Dermal Toxicity: N/A

Subacute Dermal Toxicity: N/A

Dermal Sensitization: Possible.

Inhalation Toxicity: N/A

Inhalation Sensitization: N/A

Oral Toxicity: Large doses may cause nausea.

Carcinogenicity: NTP? No

IARC Monographs? No

OSHA Regulated? No

Mutagenicity: No data available.

Reproductive Toxicity: No data available.

Teratogenicity: No data available.

Immunotoxicity: No data available.

Neurotoxicity: No data available.

Other:

No other toxicological information available.

12. ECOLOGICAL INFORMATION

Aquatic Toxicity: No data available.

Terrestrial Toxicity: No data available.

Chemical Fate and Transport: No data available.

No other ecological information available.

13. DISPOSAL INFORMATION

Regulatory Information: Do not allow this material into streams, rivers, or sanitary sewers.

Waste Disposal Methods: Contact a licensed professional waste disposal service for incineration or solidification and landfilling of this material. Rinse empty drums to insure no flammable residue remains. Do not pressurize, cut, weld, brace, solder, drill, grind, or expose empty containers to heat. "Empty" drums should be completely drained, bunged, and returned to a drum reconditioner.

14. TRANSPORTATION INFORMATION

Note: This substance is classified as a hazardous material for transportation purposes due to the reportable quantity of Ammonium Chloride. The reportable quantity of Ammonium Chloride is 5000 lbs. This material is 20-25% Ammonium Chloride.

Reportable Quantity	5,000lb
UN Number	UN3082
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s. Ammonium Chloride Solution,
Transportation Hazard Class	9
Packing Group	PG III
Marine Pollutant	No



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15. REGULATORY INFORMATION

Regulatory Lists

U.S. TSCA Inventory: All components of this product are listed on the TSCA inventory.

SARA Section 313: This product contains the following SARA, Title III, Section 313 Chemicals:

<u>Chemical</u>	<u>CAS Number</u>	<u>Percent in Product</u>
Ammonium Chloride (Aqueous)	12125-02-9	20-25

SARA 311/312 Categories

Acute: Yes

Chronic: No

Fire: No

Pressure: No

Reactive: No

Not Regulated: No

Other Regulations:

CWA: This substance (Ammonium Chloride) is listed as a Hazardous Substance under the clean Water Act but is not considered a priority pollutant nor a toxic pollutant.

State Regulations:

(Ammonium Chloride)

Florida – found on State Right-to-Know List.

Minnesota – found on State Right-to-Know List

New Jersey – Workplace Hazard

Pennsylvania – Workplace Hazard

California – Proposition 65

Massachusetts – Hazardous Substance

Canadian Regulatory Information: Ammonium Chloride is listed on Canada's DSL/NDSL and has a WHMIS classification of D2B.

16. OTHER INFORMATION

Disclaimer: The information contained herein is based upon data and information available to Chattem Chemicals, Inc., and reflects our best professional judgement. This information is furnished upon the condition that the person receiving it shall make his/her own determination of the suitability of the material for his/her particular use.

Name of preparer: Keith Bohannon
Date Revised: 7/29/2015
Reason Revised: Meet the standards set forth in HazCom 2012, (GHS)
Revision Number: R-00