


SECTION 1: Identification

- 1.1. Product identifier
 Product Form : Liquid
 Product Name(s): : AmChlorBasic (Ammonium Chloride Solution)
- 1.2. Recommended use / restrictions of use
 : Agricultural fertilizer / plant nutrients. No restrictions.
- 1.3. Details of the supplier of the data sheet
 : Winfield Solutions, LLC
 P.O. Box 64589
 St. Paul, MN 55164
 Tel 1-855-494-6343 (Non-Emergency)
- 1.4. Emergency telephone number
 Medical emergency number : 1-877-424-7452 (24 hrs)
- FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, OR ACCIDENT, CALL: CHEMTREC 1-800-424-9300**

SECTION 2: Hazards Identification

- 2.1. Classification of the substance or mixture
 : Acute toxicity, 4, oral (H302), eye irritation 2A (H319)
- 2.2. Label elements
 Hazard pictograms  GHS07
- Signal word : Warning
- Hazard statements : H302 – Harmful if swallowed
 H319 – Causes serious eye irritation
- Precautionary statements : 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 – If swallowed: call a Poison Center or doctor/physician if you feel unwell
 P305+P351+P338 – If in eyes: Rinse cautiously for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P330 – If swallowed: Rinse mouth
 P337+P313 – If eye irritation persists: Get medical advice/attention
- 2.3. Other hazards : No additional hazards
- 2.4. Unknown acute toxicity : No data available

SECTION 3: Composition/information on ingredients

- 3.1. Substance : Not applicable
- 3.2. Mixture

Ingredient name	Product identifier (CAS No.)	%
Ammonium chloride	12125-02-9	25 – 35
Water	7732-18-5	65 – 75

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : Remove to fresh air and keep at rest in a position comfortable for breathing. Call Poison Control Center or seek medical attention if you feel unwell.
- First-aid measures after skin contact : Remove contaminated clothing/shoes. Wash thoroughly with soap and water. If irritation persists, seek medical attention.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses. If irritation persists, seek medical attention.
- First-aid measures after ingestion : Do NOT induce vomiting. Give 32 oz. of water. Call Poison Control Center or seek medical attention immediately.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries after ingestion : May produce nausea, vomiting, and gastric irritation.
- Symptoms/injuries after skin contact : May cause slight skin irritation and redness.
- Symptoms/injuries after eye contact : Causes serious eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

: No additional information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Foam, dry chemical, carbon dioxide, water spray, sand.
- Unsuitable extinguishing media : None.

5.2. Special hazards arising from the substance or mixture

: Product is classified as non-flammable. However, toxic fumes may form from burning (HCl, NH₃).

5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog to cool exposed containers.
- Protection during firefighting : Wear positive pressure, self-contained breathing apparatus. Avoid fume inhalation.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment, and emergency procedures

- Protective equipment : Wear gloves and cover skin. Use eye/face protection.
- Emergency procedures : Ventilate area and evacuate unnecessary personnel.

6.2. Environmental precautions

: Prevent entry to sewers and public surface waters.

6.3. Methods and material for containment and cleaning up

- Clean-up methods : Contain spill and pump into containers. Collect residue with absorbent material. Store all spill materials in suitable containers for recycle/disposal.

6.4. Reference to other sections

: See Section 7 for safe handling information.
See Section 8 for PPE information.
See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Safe handling precautions : Avoid contact with skin and eyes. After handling product, remove clothing and laundry, and wash hands/exposed skin thoroughly with soap and water. Avoid breathing vapors. Avoid contamination of feed or foodstuffs.

Fire/explosion precautions : No special measures required.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Storage is suitable in vessels of following materials: high density polyethylene (HDPE), fiberglass, fiberglass reinforced plastic (FRP). Store in a cool, dry area.

Incompatible materials : Reactive with strong acids, alkalis, potassium chlorate.

7.3. Specific end use(s)

: No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

ACGIH Threshold Limit Value : TWA: 10 mg/m³; STEL: 20 mg/m³.

OSHA Permissible Exposure Limit : TWA: 10 mg/m³; STEL: 20 mg/m³.

8.2. Exposure controls

Appropriate engineering controls : Eyewash stations, showers, adequate ventilation.

Personal protective equipment : Hand, skin, eye.

Hand protection : Wear chemical gloves. Glove material: rubber or chemical-resistant.

Eye protection : Safety goggles or face shield.

Skin and body protection : Wear long sleeved clothing and other suitable clothing to prevent skin exposure.

Respiratory protection : Work in well ventilated area.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid	Evaporation rate	: Not determined
Color	: Clear to reddish brown	Flammability	: Non-flammable
Odor	: Slight ammonia	Flash point	: None
Odor threshold	: No data available	Explosive limit (upper)	: No data available
Boiling point	: No data available	Explosive limit (lower)	: No data available
Melting point	: Not applicable	Auto ignition temp.	: No data available
Freezing point	: 10°C / 50°F (salt-out)	Decomposition temp.	: No data available
Vapor pressure	: No data available	Partition coefficient	: No data available
Vapor density	: 1.9	Viscosity, kinematic	: No data available
pH	: 6.0 – 8.0	Viscosity, dynamic	: No data available
Specific gravity	: 1.09	Octanol/Water Part. Coeff.	: No data available
Density	: 9.10 lbs/gal		
Solubility	: Soluble in water		

9.2. Other information

: No further information available.

SECTION 10: Stability and reactivity

- 10.1. Reactivity : Not reactive under normal conditions.
- 10.2. Chemical stability : The product is stable under normal ambient conditions.
- 10.3. Possibility of hazardous reactions : No further relevant information available.
- 10.4. Conditions to avoid : Extreme heat, incompatible substances.
- 10.5. Incompatible materials : Alkalis. Strong acids. Potassium chlorate.
- 10.6. Hazardous decomposition products : Decomposition may produce hydrogen chloride gas and ammonia.
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SECTION 11: Toxicological information

- 11.1. Information on toxicological effects
- Routes of exposure : Skin contact, eye contact, ingestion.
- Skin corrosion/irritation : Causes skin irritation.
- Eye damage/irritation : Causes serious eye irritation.
- Acute toxicity : ATE US (oral) – 500 mg/kg.
- Carcinogenicity : Not classified.
- Reproductive toxicity : Not classified.
- LD50 : Rat (oral) – 1,410 mg/kg.
- Symptoms/injuries after skin contact : Causes skin irritation.
- Symptoms/injuries after eye contact : Causes serious eye irritation.
- Symptoms/injuries after inhalation : May cause respiratory irritation.
- Symptoms/injuries after ingestion : May cause nausea, vomiting, and gastric irritation.
- NTP (*National Toxicology Program*) : Substance is not listed.
- IARC (*International Agency for Research on Cancer*) : Substance is not listed.
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SECTION 12: Ecological information

- 12.1. Toxicity : LC50 – 209 mg/L (*Time: 96 h, Species: Cyprinus carpio*).
- 12.2. Persistence and degradability : No additional information available.
- 12.3. Bioaccumulative potential : No additional information available.
- 12.4. Mobility in soil : Non-persistent when applied using normal agricultural practices.
- 12.5. Other adverse effects : No additional information available.
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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Recycle excess product if possible. Dispose of product/container in accordance with local, state, and federal regulations.

13.2. Reference to other sections

: See Section 8 for exposure control information.

SECTION 14: Transport information

14.1. Transport information

UN-Number : UN3082

DOT, ADR, ADN, IATA, IMDG : 3082

UN proper shipping name : Environmentally hazardous substance, liquid, n.o.s. (Ammonium

Transport hazard class : 9

Class – DOT, ADR, ADN, IATA, IMDG : 9 – Class 9 – Miscellaneous hazardous material

Packing group – DOT, ADR, IMDG, IATA : III – Minor Damage

Environmental hazards: Marine pollutant : Not classified as a marine pollutant
IMDGTransport in bulk according to Annex II of : No limit
MARPOL 73/78 and IBC codeSpecial precautions for user : None

SECTION 15: Regulatory information

15.1. US Federal regulations

SARA 302 (EHS) : Product is not listed.

SARA 311-312 (TIER II) : Applicable.

SARA 313 (TRI) : Applicable.

15.2. International regulations

Canada : Product is listed on Domestic Substances List.

European Union : Product is not listed.

15.3. US State regulations

: New Jersey / Pennsylvania / Massachusetts: Right-To-Know.

SECTION 16: Other information

16.1. Other information

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