


**SECTION 1: Identification**

- 1.1. Product identifier  
 Product Form : Solid Granule  
 Product Name(s): : AmchlorDry (Ammonium Chloride)
  - 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	97 – 100

**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.

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**SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

- Suitable extinguishing media : Water, dry chemical, carbon dioxide.
- 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, NH<sub>3</sub>).

## 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 : Sweep up and store in containers. Collect wet 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.

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**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/m<sup>3</sup>; STEL: 20 mg/m<sup>3</sup>.

OSHA Permissible Exposure Limit : TWA: 10 mg/m<sup>3</sup>; STEL: 20 mg/m<sup>3</sup>.

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	: Solid granules	Evaporation rate	: Not determined
Color	: White	Flammability	: Non-flammable
Odor	: Odorless	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	: 340°C / 644°F	Auto ignition temp.	: No data available
Freezing point	: Not applicable	Decomposition temp.	: No data available
Vapor pressure	: Not applicable	Partition coefficient	: No data available
Vapor density	: Not applicable	Viscosity, kinematic	: No data available
pH	: 4.0 – 7.0	Viscosity, dynamic	: No data available
Specific gravity	: 0.7368	Octanol/Water Part. Coeff.	: No data available
Density	: 46 lb./cu ft. (bulk)		
Solubility	: 100% 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.

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**SECTION 14: Transport information**

## 14.1. Transport information

UN-Number : UN3077

DOT, ADR, ADN, IATA, IMDG : 3077

UN proper shipping name : Environmentally hazardous substance, solid, n.o.s. (Ammonium Chloride)

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

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**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.

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**SECTION 16: Other information**

## 16.1. Other information

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