

## 1. IDENTIFICATION

**Product Name** Ammonium Chloride  
**Recommended use** Fertilizer and Animal Feed  
**Supplier** Valudor Products, LLC.  
 179 Calle Magdalena Suite 100  
 Encinitas CA 92024  
 (760) 635 8500  
**Emergency Telephone** 800-535-5053 (Infotrac)

## 2. HAZARD IDENTIFICATION

### Classification

This product is considered hazardous under the U.S. OSHA 29 CFR 1910.1200 Hazard Communication Standard.

Acute Toxicity - Oral	Category 4
Eye Damage / Irritation	Category 2

### Label Elements

#### GHS Pictograms



#### **Signal Word**

#### **Hazard Statements**

#### **Precautionary Statements – Prevention**

#### **Response**

#### **Disposal**

#### **Hazards not other classified**

#### **Warning**

Harmful if swallowed  
 Causes serious eye irritation

Wash thoroughly after handling  
 Do not eat, drink or smoke when using this product  
 Wear eye protection/face protection  
 If swallowed: Call a poison center/doctor/ if you feel unwell  
 Rinse mouth  
 If in eyes: Rinse cautiously with water for several minutes.  
 Remove contact lenses, if present and easy to do. Continue rinsing  
 If eye irritation persists: Get medical advice / attention  
 Dispose of contents/ container to an approved waste disposal plant  
 None

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

### Mixture

Chemical name	CAS-No	Weight-%
Deionized Water	7732-18-5	94.65
Ammonium Chloride	12125-02-9	5.35

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#### 4. FIRST-AID MEASURES

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##### First Aid Measures

<b>Eye Contact</b>	Immediately rinse with plenty of water. Remove contact lenses, if present and easy to do so. Keep eye wide open while rinsing. Continue rinsing for 15 minutes. Call a doctor/ physician if irritation persists
<b>Skin Contact</b>	Wash off immediately with plenty of water. Remove all contaminated clothes and shoes. If skin irritation persists, call a doctor/physician
<b>Inhalation</b>	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention.
<b>Ingestion</b>	Do not induce vomiting without medical advice. Rinse mouth with water. Never give anything by mouth to an unconscious person. If symptoms persist or you feel unwell, call a physician / Poison Center

##### Most important symptoms/effects, acute and delayed

<b>Symptoms</b>	Irritation, Nausea, Headache, Shortness of breath;
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#### 5. FIRE-FIGHTING MEASURES

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**Suitable extinguishing Media** Use any means suitable for extinguishing surrounding fire.

##### Specific Hazards Arising from the chemical

Hazardous combustion products	Thermal decomposition can lead to the release of irritation or toxic gases and vapors; including and not limited to: Carbon oxides Metal oxides
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##### Protective equipment and precautions for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

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#### 6. ACCIDENTAL RELEASE MEASURES

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##### Personal precautions, protective equipment, and emergency procedures

<b>Personal precautions</b>	Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists. Use personal protection recommended in Section 8. Ensure adequate ventilation. Keep away from sources of ignition.
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##### Methods and materials for containment and cleanup

<b>Methods for clean-up</b>	Vacuum or use appropriate absorbents. Contain spill by diking or using inert absorbent. Place in an appropriate closed container. Keep unauthorized personnel away. Obey local regulations.
<b>Environmental Precautions</b>	Prevent entry into waterways or sewers

## 7. HANDLING AND STORAGE

### Precautions for safe handling

Avoid contact with eyes, skin and clothing. Wear gloves/eye/face protection. Use personal protection recommended in Section 8. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product. Clean equipment and work area regularly.

### Conditions for safe storage, including any incompatibilities

Store in a cool/low-temperature, well-ventilated, dry place. Keep containers closed and labeled when not in use. Store away from oxidizing agents. Prevent product from freezing.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Guidelines

ACGIH TLV(TWA): 10 mg/m<sup>3</sup> (fume, Ammonium Chloride)

ACGIH TLV(STEL): 20 mg/m<sup>3</sup> (fume, Ammonium Chloride)

### Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas. Consider the potential hazards of this material, applicable exposure limits, job activities and other substances in the workplace when designing controls and selecting personal protective equipment.

### Personal Protective Equipment

<b>Eye/face protection</b>	Safety glasses with side shields. If splashes are likely to occur wear goggles.
<b>Skin protection</b>	Choose the appropriate protective clothing and gloves based on the tasks being performed to avoid exposure to skin. Wear protective gloves Long sleeved protective clothing
<b>Respiratory protection</b>	Not required under normal circumstances. If exposure limits are exceeded or if irritation or other symptoms are experienced use a NIOSH/MSHA approved respirator
<b>Hygiene Measures</b>	Handle in accordance with good industrial hygiene and safety practices. Do not eat, drink or smoke when using this product.

## 9. PHYSICAL and CHEMICAL PROPERTIES

<b>Appearance</b>	Clear, Colorless
<b>Physical state</b>	Liquid
<b>Odor</b>	Odorless
<b>Odor threshold</b>	No information available
<b>pH</b>	7 [Neutral] (1 % soln/water)
<b>Freezing point</b>	0 °C (32 °F)

<b>Boiling point</b>	100°C (212°F)
<b>Flash point</b>	Not applicable
<b>Evaporation rate</b>	Not applicable
<b>Flammability</b>	No information available
<b>Flammability or explosive limits</b>	
<b>Upper</b>	No information available
<b>Lower</b>	No information available
<b>Vapor pressure</b>	2.3 kPa (@ 20°C) or 23 hPa (17 mm Hg) at 20 °C (68 °F)
<b>Vapor density</b>	0.62 (Air = 1)
<b>Relative density</b>	1 (Water = 1)
<b>Density</b>	1 g/cm <sup>3</sup> (8.345 lbs/gal) at 20 °C (68 °F)
<b>Solubility in water</b>	Soluble in water
<b>Partition coefficient</b>	No information available
<b>Auto-ignition temperature</b>	No information available
<b>Decomposition temperature</b>	No information available
<b>Viscosity</b>	Dynamic: 0.952 mPas at 20 °C (68 °F)

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## 10. STABILITY AND REACTIVITY

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<b>Reactivity</b>	None known under normal conditions.
<b>Chemical stability</b>	Stable under ordinary conditions of use and storage.
<b>Possibility of hazardous reactions</b>	None under normal processing.
<b>Conditions to avoid</b>	Avoid incompatible materials.
<b>Incompatible materials</b>	Strong bases. Strong Acids. Strong Oxidizers
<b>Hazardous decomposition products</b>	Hazardous combustion can lead to the release of irritating gases and vapors.

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## 11. TOXICOLOGICAL INFORMATION

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### Information on likely routes of exposure

<b>Skin contact</b>	May cause skin irritation
<b>Eye contact</b>	Causes serious eye irritation
<b>Inhalation</b>	May cause irritation of respiratory tract
<b>Ingestion</b>	Harmful if swallowed

### Symptoms related to the physical chemical and toxicological characteristics

Irritation, Nausea, Headache, Shortness of breath

### Delayed and immediate effects and also chronic effects form short and long-term exposure

<b>Skin damage/irritation</b>	Not classified
<b>Eye damage/irritation</b>	Causes serious eye irritation
<b>Sensitization</b>	Not classified
<b>Mutagenic effects</b>	Not classified

<b>Carcinogenicity</b>	Not classified
<b>Reproductive toxicity</b>	Not classified
<b>STOT – single exposure</b>	Not classified
<b>STOT – repeated exposure</b>	Not classified
<b>Aspiration hazard</b>	Not classified

**Acute Toxicity****Component information**

Component	Cas-No	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ammonium Chloride	12125-02-9	> 1650 mg/kg	> 2,000 mg/kg	-

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity** Should not be released to environment

Component	Freshwater Fish	Freshwater Algae	Water Flea
Ammonium Chloride 12125-02-9	LC50: 42.91 mg/L <i>Prosopium williamsoni</i>	EC50: 1,300 mg/L <i>Chlorella vulgaris</i>	EC50: 136.6 mg/L <i>Daphnia magna</i>

**Persistence and degradability** Readily degradable in the environment.

**Bioaccumulative potential** No information available

**Mobility in soil** Aqueous solution has high mobility in soil.

**Other adverse effects** No information available

**13. DISPOSAL CONSIDERATIONS**

**Waste Disposal Methods** Processing, use, or contamination of this product may occur during product use. Accordingly, it is the responsibility of the user to determine the proper disposal methodologies. Consult the appropriate state, regional or local regulations to ensure complete and accurate classification. Dispose of contaminated packaging in accordance with local regulations.

**14. TRANSPORT INFORMATION**

<b>DOT</b>	Not regulated
<b>IATA</b>	Not regulated
<b>IMDG</b>	Not regulated

**15. REGULATORY INFORMATION****International Inventories**

<b>TSCA</b>	Listed
<b>DSL</b>	Listed

**US Federal Regulations****TSCA section 12(b) Export Notification**

Not regulated

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains the following compounds which are subject to the reporting requirements of the Act and 40 CFR, Part 372: Ammonium chloride Cas 12125-02-9

**SARA 311/312 Hazard Categorization**

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Pressure	No
Reactivity	No

**CERCLA/SARA 302 & 304**

Section 302 & 304 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains the following compounds which are subject to the reporting requirements of the Act and 40 CFR, Part 355.

<b>Chemical name</b>	<b>Cas-No</b>	<b>CERCLA RQ</b>
Ammonium Chloride	12125-02-9	5000 lbs.

**CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42): Ammonium chloride

**US State Regulations****California Proposition 65**

This product does not contain any proposition 65 chemicals

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**16. OTHER INFORMATION**


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**NFPA Ratings**      Health: 2                      Flammability: 0                      Reactivity: 0

Creation Date: 02/21/2016

Revision Date: 05/17/2020

Revision Number: 1.0

Revision Information    Creation

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the

**Product name:** Ammonium Chloride

**Revision Date:** 05/17/2020

specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text