

# Safety Data Sheet

according to 29CFR1910/1200 and GHS Rev. 3

Effective date : 01.06.2015

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## Ammonium Chloride,

### SECTION 1: Identification of the substance/mixture and of the supplier

**Product name:** Ammonium Chloride,

**Manufacturer/Supplier Trade name:**

**Manufacturer/Supplier Article number:** S25168

**Recommended uses of the product and restrictions on use:**

**Manufacturer Details:**

AquaPhoenix Scientific, Inc  
9 Barnhart Drive, Hanover, PA 17331  
(717) 632-1291

**Supplier Details:**

Fisher Science Education  
6771 Silver Crest Road, Nazareth, PA 18064  
(724)517-1954

**Emergency telephone number:**

**Fisher Science Education**  
Emergency Telephone No.: 800-535-5053

### SECTION 2: Hazards identification

**Classification of the substance or mixture:** Acute Tox. 4 H302.  
Eye Irrit. 2 H319.

**Signal word:** None

**Hazard statements:** None

**Precautionary statements:**

If medical advice is needed, have product container or label at hand.  
Keep out of reach of children.  
Read label before use.  
Do not eat, drink or smoke when using this product.  
Wear protective gloves/protective clothing/eye protection/face protection.  
Wash skin thoroughly after handling.  
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.

**Other Non-GHS Classification:**

WHMIS

D2B



NFPA/HMIS

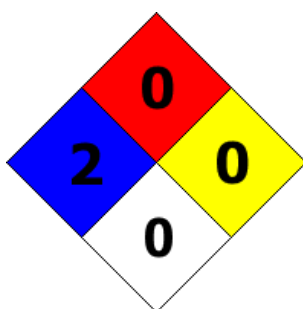
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NFPA SCALE (0-4)

|                     |   |
|---------------------|---|
| Health              | 2 |
| Flammability        | 0 |
| Physical Hazard     | 0 |
| Personal Protection | X |

HMIS RATINGS (0-4)

### SECTION 3: Composition/information on ingredients

#### Ingredients:

|                           |                   |       |
|---------------------------|-------------------|-------|
| CAS 12125-02-9            | Ammonium Chloride | 100 % |
| Percentages are by weight |                   |       |

### SECTION 4: First aid measures

#### Description of first aid measures

##### After inhalation:

Move exposed individual to fresh air. Loosen clothing as necessary and position individual in a comfortable position. Give artificial respiration if necessary. Get medical assistance if cough or other symptoms appear.

##### After skin contact:

Wash affected area with soap and water. Seek medical advice if discomfort or irritation persists.

##### After eye contact:

Protect unexposed eye. Rinse or flush exposed eye gently using water for 15-20 minutes. Remove contact lenses while rinsing. Continue rinsing eyes for an additional 15 minutes. Immediately get medical assistance.

##### After swallowing:

Rinse mouth thoroughly. Do not induce vomiting. Dilute mouth with sips of water or milk after rinsing. Get medical assistance.

#### Most important symptoms and effects, both acute and delayed:

Shortness of breath. Irritation. Nausea. Headache.

#### Indication of any immediate medical attention and special treatment needed:

If seeking medical attention, provide SDS document to physician.

### SECTION 5: Firefighting measures

#### Extinguishing media

##### Suitable extinguishing agents:

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition. Use water, dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam.

##### Unsuitable extinguishing agents: None

#### Special hazards arising from the substance or mixture: None

#### Advice for firefighters:

##### Protective equipment:

Wear protective eyewear, gloves, and clothing.

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### Additional information (precautions):

Ensure adequate ventilation. Avoid contact with skin, eyes, and clothing.

### SECTION 6: Accidental release measures

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

Ensure adequate ventilation. Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. When necessary use NIOSH approved breathing equipment. Use personal protective equipment. Avoid contact with skin, eyes and clothing.

**Environmental precautions:** None

#### Methods and material for containment and cleaning up:

If necessary use trained response staff or contractor. Absorb with suitable material. Follow good hygiene procedures when handling chemical materials. Refer to Section 8. Wear protective eyewear, gloves, and clothing. Refer to Section 8. Always obey local regulations.

**Reference to other sections:** None

### SECTION 7: Handling and storage

#### Precautions for safe handling:

Wash hands after handling. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with eyes, skin, and clothing.

#### Conditions for safe storage, including any incompatibilities:

Store with like hazards. Protect from freezing and physical damage.

### SECTION 8: Exposure controls/personal protection



#### Control Parameters:

12125-02-9, Ammonium Chloride , ACGIH TLV: 10mg/m3.  
, , OSHA PEL TWA (Total Dust) 15 mg/m3 (50 mppcf\*).  
, , ACGIH TLV TWA (inhalable particles) 10 mg/m3.

#### Appropriate Engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling. Normal ventilation is adequate.

#### Respiratory protection:

Not required under normal conditions of use. Where risk assessment shows air-purifying respirators are refer to Section 6.

#### Protection of skin:

Select glove material impermeable and resistant to the substance. Select glove material based on rates of diffusion and degradation. Wear protective clothing.

#### Eye protection:

Safety glasses with side shields or goggles.

#### General hygienic measures:

Wash hands before breaks and at the end of work. Wash hands and exposed skin with soap and plenty of water. Perform routine housekeeping. Before wearing again wash contaminated clothing.

### SECTION 9: Physical and chemical properties

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## Ammonium Chloride,

|  |                                  |  |  |
|--|----------------------------------|--|--|
| <b>Appearance (physical state, color):</b> | White solid                      | <b>Explosion limit lower:</b><br><b>Explosion limit upper:</b> | Non Explosive<br>Non Explosive                             |
| <b>Odor:</b>                               | Odorless                         | <b>Vapor pressure at 20°C:</b>                                 | Not Applicable   |
| <b>Odor threshold:</b>                     | Not Applicable                   | <b>Vapor density:</b>  | Not Applicable   |
| <b>pH-value:</b>                           | 5.0-5.5 (1-10%) aqueous solution | <b>Relative density:</b>                                       | Not Available  |
| <b>Melting/Freezing point:</b>             | Approx 338°C                     | <b>Solubilities:</b>   | Approx 29.7g/100 g water at 0°C.                           |
| <b>Boiling point/Boiling range:</b>        | Approx 520°C                     | <b>Partition coefficient (n-octanol/water):</b>                | Not Available  |
| <b>Flash point (closed cup):</b>           | Not Applicable                   | <b>Auto/Self-ignition temperature:</b>                         | Not Applicable   |
| <b>Evaporation rate:</b>                   | Not Applicable                   | <b>Decomposition temperature:</b>                              | Not Available  |
| <b>Flammability (solid, gaseous):</b>      | Not Applicable                   | <b>Viscosity:</b>  | a. Kinematic: Not Applicable<br>b. Dynamic: Not Applicable |
| <b>Density at 20°C:</b>                    | Not Available                    |  |  |

## SECTION 10: Stability and reactivity

### Reactivity:

None under normal processing.

### Chemical stability:

Stable under normal conditions.

### Possible hazardous reactions:

Reacts explosively with potassium chlorate or bromine trifluoride. Reacts violently with bromide pentafluoride, ammonium compounds, nitrates, and iodine heptafluoride.

### Conditions to avoid:

Incompatible Materials.

### Incompatible materials:

Strong acids. Strong bases. Silver salts. potassium chlorate. bromine trifluoride. bromide pentafluoride. ammonium compounds. nitrates. iodine heptafluoride.

### Hazardous decomposition products:

Ammonia. Hydrogen chloride.

## SECTION 11: Toxicological information

### Acute Toxicity:

#### Oral:

LD50:1650 mg/kg (rat) Ammonium Chloride (12125-02-9)

**Chronic Toxicity:** No additional information.

**Corrosion Irritation:** No additional information.

**Sensitization:** No additional information.

**Numerical Measures:** No additional information.

**Carcinogenicity:** No additional information.

**Mutagenicity:** No additional information.

**Reproductive Toxicity:** No additional information.

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## Ammonium Chloride,

### SECTION 12: Ecological information

**Ecotoxicity:** No additional information.

**Persistence and degradability:** No additional information.

**Bioaccumulative potential:** No additional information.

**Mobility in soil:** No additional information.

**Other adverse effects:** No additional information.

### SECTION 13: Disposal considerations

#### Waste disposal recommendations:

Dilute with water and flush to sewer. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations. Ensure complete and accurate classification.

### SECTION 14: Transport information

#### US DOT

##### UN Number:

ADR, ADN, DOT, IMDG, IATA

None

##### Limited Quantity Exception:

None

##### Bulk:

**RQ (if applicable):** None

**Proper shipping Name:** None

**Hazard Class:** None

**Packing Group:** None

**Marine Pollutant (if applicable):** No additional information.

**Comments:** None

##### Non Bulk:

**RQ (if applicable):** None

**Proper shipping Name:** None

**Hazard Class:** None

**Packing Group:** None

**Marine Pollutant (if applicable):** No additional information.

**Comments:** None

### SECTION 15: Regulatory information

#### United States (USA)

##### SARA Section 311/312 (Specific toxic chemical listings):

None of the ingredients are listed.

##### SARA Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

##### RCRA (hazardous waste code):

None of the ingredients are listed.

##### TSCA (Toxic Substances Control Act):

All ingredients are listed.

##### CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):

None of the ingredients are listed.

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## Ammonium Chloride,

### Proposition 65 (California):

**Chemicals known to cause cancer:**

None of the ingredients are listed.

**Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

**Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

**Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

### Canada

**Canadian Domestic Substances List (DSL):**

All ingredients are listed.

**Canadian NPRI Ingredient Disclosure list (limit 0.1%):**

None of the ingredients are listed.

**Canadian NPRI Ingredient Disclosure list (limit 1%):**

None of the ingredients are listed.

## SECTION 16: Other information

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. Note. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

**GHS Full Text Phrases:** None

### Abbreviations and Acronyms:

IMDG International Maritime Code for Dangerous Goods.  
PNEC Predicted No-Effect Concentration (REACH).  
CFR Code of Federal Regulations (USA).  
SARA Superfund Amendments and Reauthorization Act (USA).  
RCRA Resource Conservation and Recovery Act (USA).  
TSCA Toxic Substances Control Act (USA).  
NPRI National Pollutant Release Inventory (Canada).  
DOT US Department of Transportation.  
IATA International Air Transport Association.  
GHS Globally Harmonized System of Classification and Labelling of Chemicals.  
ACGIH American Conference of Governmental Industrial Hygienists.  
CAS Chemical Abstracts Service (division of the American Chemical Society).  
NFPA National Fire Protection Association (USA).  
HMIS Hazardous Materials Identification System (USA).  
WHMIS Workplace Hazardous Materials Information System (Canada).

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### Ammonium Chloride,

DNEL Derived No-Effect Level (REACH).

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