



LABORATORY CHEMICALS AND CONSUMABLES
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MATERIAL SAFETY DATA SHEET

AMMONIUM CARBONATE

1. Chemical Product and Company information.

Product name: Ammonium carbonate

Contact Information:

Radchem cc
PO Box 166982
Brackendowns
Alberton 1454
Telephone : **011 867 3726 / 2864**

Emergency Telephone Numbers:

2. Hazard Identification

Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation (lung irritant).

3. Composition / information on ingredients

CAS #: 506-87-6 or 10361-29-2

Synonym: Di-ammonium carbonate; Carbonic acid, ammonium salt; Carbonic acid, di-ammonium salt

Chemical Name: Ammonium Carbonate

Chemical Formula: $(\text{NH}_4)_2\text{CO}_3$

4. First Aid Measures

Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.

Skin Contact: In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Serious Skin Contact: Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.



Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation: Not available.

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Serious Ingestion: Not available.

5. Fire-fighting measures

Flammability of the Product: Non-flammable.

Fire Hazards in Presence of Various Substances: Metals, combustible materials

Explosion Hazards in Presence of Various Substances: Risks of explosion of the product in presence of static discharge: Not available. Slightly explosive in presence of heat. Non explosive in presence of shocks.

Fire Fighting Media and Instructions: Not applicable.

Special Remarks on Fire Hazards: Non combustible. This substance itself does not burn, but may decompose upon heating. In a fire situation, It may ignite combustibles (wood, paper, oil, clothing, etc.). Contact with metals may evolve flammable hydrogen gas. When heated to decomposition it emits toxic fumes.

Special Remarks on Explosion Hazards:
Containers may explode when heated (in a fire).

6. Accidental release measures

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill: Use a shovel to put the material into a convenient waste disposal container.

7. Handling and storage

Precautions: Do not breathe dust. Wear suitable protective clothing. If you feel unwell, seek medical attention and show the label when possible. Avoid contact with skin and eyes.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 30°C (86°F). Sensitive to light. Store in light-resistant containers.

8. Exposure controls/personal protection

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection: Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill: Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.



<p><u>9. Physical and chemical properties</u></p> <p>Physical state and appearance: Solid.</p> <p>Odour: Ammoniacal.</p> <p>Taste: Sharp ammoniacal</p> <p>Colour: White.</p> <p>Boiling Point: Not available.</p> <p>Melting Point: Decomposition temperature: 58°C (136.4°F)</p> <p>Critical Temperature: Not available.</p> <p>Specific Gravity: Density: 1.5 (Water = 1)</p> <p>Vapour Density: Not available.</p> <p>Volatility: Not available.</p>	<p>Odour Threshold: <5 ppm</p> <p>Ionicity (in Water): Not available.</p> <p>Dispersion Properties: See solubility in water.</p> <p>Solubility: Soluble in cold water. Slowly soluble in 4 parts of cold water. Decomposes in hot water, yielding ammonia and carbon dioxide.</p>
<p><u>10. Stability and reactivity</u></p> <p>Stability: The product is stable.</p> <p>Instability Temperature: Not available.</p> <p>Conditions of Instability: Incompatible materials</p> <p>Incompatibility with various substances: Reactive with acids.</p> <p>Corrosivity: Non-corrosive in presence of glass.</p> <p>Special Remarks on Reactivity: Not available</p> <p>Special Remarks on Corrosivity: Not available.</p> <p>Polymerization: Will not occur.</p>	
<p><u>11. Toxicological information</u></p> <p>Routes of Entry: Inhalation. Ingestion.</p> <p>Toxicity to Animals: LD50: Not available. LC50: Not available.</p> <p>Chronic Effects on Humans: Not available.</p> <p>Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant), of ingestion, of inhalation (lung irritant).</p> <p>Special Remarks on Toxicity to Animals: Not available.</p> <p>Special Remarks on Chronic Effects on Humans: Not available</p> <p>Special Remarks on other Toxic Effects on Humans: Acute Potential Health Effects: Skin: It can cause skin irritation with burning pain, itching and redness. Eyes: It can cause eye irritation. It may cause chemical conjunctivitis Inhalation: It can cause respiratory tract (nose and throat) irritation and cause coughing and</p>	



wheezing. It can produce delayed pulmonary edema. Ingestion: It may cause gastrointestinal tract irritation with nausea, vomiting, and diarrhea. May affect behavior and respiration

12. Ecological information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.

Special Remarks on the Products of Biodegradation: Not available.

13. Disposal considerations

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

14. Transport information

DOT Classification: Not a DOT controlled material

Identification: : Not Applicable

Special Provisions for Transport: Not Applicable

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