

MATERIAL SAFETY DATA SHEET

Product: **Ammonium Carbonate**

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity

Product Name: Ammonium Carbonate, Powder, Technical

Product Code: CH-506876A

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

General or Generic ID: Diammonium carbonate; Carbonic acid, ammonium salt; Carbonic acid, diammonium salt

Company

ArtChemicals.com
2250 Davis Street
San Leandro, CA 94577-2204
510-639-4670

Emergency Telephone Number:

1-800-451-8346

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>CAS No.</u>	<u>Chemical Identity</u>	<u>Common Name</u>	<u>%</u>
506-87-6 or 10361-29-2	N/A	Ammonium carbonate	100

3. HAZARDS IDENTIFICATION

Potential Health Effects

Eye:

Hazardous in case of eye contact (irritant). Symptoms include stinging, tearing, redness and impairment of vision. The degree of injury will depend on the amount of material that gets into the eye and the speed and thoroughness of the first aid treatment.

Skin:

Hazardous in case of skin contact (irritant). Symptoms may include redness, burning of skin, or, occasionally, blistering. The degree of injury will depend on the amount of material that gets on the skin and the speed and thoroughness of the first aid treatment.

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Ingestion:

Hazardous in case of ingestion. Inhalation of dust will produce irritation to gastro-intestinal tract.

Inhalation:

Hazardous in case of inhalation (lung irritant). Breathing in large amounts may cause respiratory irritation, burning, sneezing and coughing.

Symptoms of Exposure:

Not available.

Development Information:

Not available.

Repeated or prolonged exposure to the substance is not known to aggravate medical condition.

Cancer Information:

Not available.

Primary Route(s) of Entry:

Inhalation, skin absorption, skin contact, and eye contact.

4. FIRST AID MEASURES

Inhalation:

If inhaled, promptly remove individual to fresh air. If not breathing, give oxygen. Get medical attention.

Ingestion:

Do NOT induce vomiting, unless directed by medical personnel. Seek medical attention. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Do not leave individual unattended. Loosen tight clothing such as collar, tie, belt or waistband. Get medical attention if symptoms appear.

Eyes:

Remove contact lenses if worn. Spread eyelids with fingers and flush eye for minimum of 15 minutes with water; keep rotating the eyes to ensure complete flushing. Cold water may be used. Do not use an eye ointment. Seek medical attention.

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Skin:

Immediately remove contaminated clothing and thoroughly flush skin with plenty of water (15 minutes). Wash thoroughly with soap and water. Seek medical attention if irritation develops. Launder clothing before reuse.

Note to Physicians:

Not available.

5. FIRE FIGHTING MEASURES

Flash Point: Non-flammable. Not applicable.

Explosive Limit: Not applicable.

Auto-ignition Temperature: Not applicable.

Hazardous Products of Combustion: Not applicable.

Extinguishing Media: Not applicable.

SPECIAL FIRE-FIGHTING PROCEDURES: Not available.

NFPA CODES: Health = 2 Flammability = 0 Reactivity = 0

6. PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled:

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.

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7. PRECAUTIONS TO BE TAKEN IN HANDLING AND 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.

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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Be sure to use an approved/certified respirator or equivalent.

Skin Protection:

Wear resistant gloves. To prevent repeated or prolonged skin contact, wear impervious clothing and boots or lab coat.

Eye Protection:

Chemical splash goggles in compliance with OSHA regulations are advised. Face shield. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Other Protective Clothing or Equipment:

Provide sufficient mechanical ventilation to maintain exposure below level of overexposure. Boots. Full suit. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling product.

Exposure Limits:

Not available.

Consult local authorities for acceptable exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: White solid. (Ammoniacal odor).

Molecular Weight: 96.11 g/mole

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pH (1% soln/water): Not available.

Boiling Point: Not available.

Melting Point: Decomposition temp: 58°C (136.4°F).

Specific Gravity: 1.5 (Water=1)

Vapor Pressure (@20°C): Not applicable.

Evaporation Rate: Not available.

Solubility in Water: Easily soluble in cold water. Decomposes in hot water.

10. STABILITY AND REACTIVITY

Incompatibility: Reactive with acids.

Stability: Stable.

Hazardous Decomposition: N/A

Hazardous Polymerization: Will not occur.

SPECIAL REMARKS ON REACTIVITY: Decomposes in hot water, yielding ammonia and carbon dioxide. Air sensitive. Decomposes on exposure to air with loss of ammonia and carbon dioxide becoming white and powdery and converting to ammonium bicarbonate. Sensitive to light.

11. TOXICOLOGICAL INFORMATION

Routes of entry: Ingestion. Inhalation.

Acute oral toxicity (LD50): N/A

Acute dermal toxicity (LD50): N/A

Acute toxicity of the mist (LC50): N/A

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 wheezing. It can produce delayed pulmonary edema.

Ingestion: It may cause gastrointestinal tract irritation with nausea, vomiting, and diarrhea. May affect behavior and respiration.

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12. ECOLOGICAL INFORMATION

Not available.

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise. The product itself and its products of degradation are not toxic.

13. DISPOSAL CONSIDERATION

Waste Disposal Method:

Dispose of in accordance with all applicable local, state and federal regulations.

14. DOT SHIPPING NAME & IDENTIFICATION:

NON-REGULATED. Not a DOT controlled material (United States).

15. OTHER INFORMATION

The information accumulated herein is believed to be accurate but is not warranted to be, whether originating with the company or not. Recipients are advised to confirm in advance of need that information is current, applicable, and suitable to their circumstances.