

PRMI

# MATERIAL SAFETY DATA SHEET

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## SECTION 1 Product Identification

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**CHEMICAL NAME:** AMMONIUM CARBONATE  
**PRODUCT NO:** 1050-2  
**CAS#:** 506-87-6  
**FORMULA:**  $(\text{NH}_4)_2\text{CO}_3$   
**EINECS NO:** 208-058-0  
**SYNONYMS:** Ammonium sesquicarbonate, Carbonic acid Ammonium salt

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## SECTION 2 Composition and Information on Ingredients

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INGREDIENT:	CAS#	%	ACGIH (TWA)	OSHA (PEL)
Title Compound	506-87-6	100	25 ppm	50ppm

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## SECTION 3 Hazards Identification

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**EMERGENCY OVERVIEW:** CAUTION! AIR SENSITIVE. CAUSES EYE AND SKIN IRRITATION, CAUSES SEVERE RESPIRATORY AND DIGESTIVE TRACT IRRITATION. Harmful if swallowed.  
**PRIMARY ROUTES OF EXPOSURE:** Respiratory system, eyes, skin, digestive tract.  
**TARGET ORGAN:** Respiratory system  
**EYE CONTACT:** Causes eye irritation.  
**SKIN CONTACT:** Causes skin irritation. May be harmful if absorbed thru skin.  
**INHALATION:** May be harmful if inhaled. Causes respiratory tract irritation.  
**INGESTION:** Harmful if swallowed. Causes irritation of the digestive tract.  
**CHRONIC HEALTH EFFECTS:** No data

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## SECTION 4 First Aid Measures

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**EYE EXPOSURE:** Immediately flush the eyes with copious amounts of water (lukewarm if possible) for 15 minutes. Assure rinsing under eyelids. Get immediate competent medical attention by a qualified physician.  
**SKIN EXPOSURE:** Immediately flush skin with copious amounts of water for at least 15 minutes while removing contaminated clothing and shoes. If redness or irritation persists, consult a physician.  
**INHALATION:** Remove victim to fresh air. Seek immediate emergency medical assistance. Give oxygen if deemed necessary. If not breathing administer CPR.  
**INGESTION:** Seek competent medical assistance immediately. Keep the victim calm. Do not induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water. Seek competent medical care.

## SECTION 5 Firefighting Measures

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**NFPA Rating:** Health: 2 Flammability: 0 Instability: 1

**FLASH POINT:** Non-combustible

**AUTOIGNITION TEMPERATURE:** Not applicable

**EXPLOSION LIMITS:** Not applicable

**EXTINGUISHING MEDIUM:** Any means suitable for surrounding fire.

**SPECIAL FIREFIGHTING PROCEDURES:** If this product is involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing.

**HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:** If involved in a fire this material may emit nitrogen oxides, oxides of carbon, ammonia, urea

**UNUSUAL FIRE OR EXPLOSION HAZARDS:** None Known

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## SECTION 6 Accidental Release Measures

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**SPILL AND LEAK PROCEDURES:** Wearing appropriate protection which includes NIOSH/MSHA approved respirator, chemical resistant gloves, safety goggles, protection to avoid contact with clothing, shoes, isolate spillage. Vacuum or sweep up trying not to generate dust; place into a suitable disposal container.

**DISPOSAL:** Retain all contaminated soilage for removal and treatment. Dispose of in accordance with all waste disposal regulations.

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## SECTION 7 Handling and Storage

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**HANDLING AND STORAGE:** KEEP TIGHTLY CLOSED WHEN NOT IN USE. DECOMPOSES ON EXPOSURE TO AIR. Caution! Air and Moisture Sensitive. Causes eye and irritation. Causes respiratory irritation. Store in a dry, well-ventilated area away from incompatible materials. Do not inhale dust. Avoid contact with skin, eyes, clothing.

Wear appropriate personal protective equipment when handling. Handle only in a efficient chemical fume hood. To be handled by qualified personnel only. Do not allow release into environment.

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## SECTION 8 Exposure Controls and Personal Protection

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**EYE PROTECTION:** Always wear approved safety glasses w/side shields, or safety goggles, faceshield when handling a chemicals substance in the laboratory.

**SKIN PROTECTION:** Chemical resistant, impervious

**VENTILATION:** Handle in an efficient chemical fume hood.

**RESPIRATOR:** If ventilation if not available, a high efficiency dust respirator (NIOSH type N95 filters or better) should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29CFR 1910.34.

**ADDITIONAL PROTECTION:** Protection to avoid contact with clothing, shoes.( chemical-resistant lab apron, overalls, booties, sleevelets.)

**OTHER PROTECTIVE EQUIPMENT:** Eye wash and quick-drench shower facilities should be available in work area. Use in a contolled environment. Do not smoke, eat or drink in area. Avoid prolonged or repeated exposure.

**PRECAUTIONS: IRRITANT AIR SENSITIVE.** Avoid contact with skin, eyes, clothing, shoes. Causes irritation to skin, eyes and mucous membranes. Do not inhale dust. Use with adequate ventilation.

## SECTION 9

## Physical and Chemical Properties

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**COLOR AND FORM:** White powder; Strong ammonia odor  
**MOLECULAR WEIGHT:** 96.07  
**MELTING POINT (DEG. C.):** 58  
**SPECIFIC GRAVITY (WATER = 1):** 1.500 @ 68 deg. F  
**BOILING POINT:** 760 mm Hg (decomposes)  
**VAPOR PRESSURE:** Not applicable  
**VAPOR DENSITY (AIR = 1):** Not applicable  
**% VOLATILE BY VOLUME:** Non volatile  
**SOLUBILITY:** Soluble in cold water, decomposes in hot water

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## SECTION 10 Stability and Reactivity

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**STABILITY:** Stable if stored under proper conditions. Air, moisture, heat sensitive. Converts to ammonium bicarbonate which liberates ammonia and carbon dioxide.  
**HAZARDOUS DECOMPOSITION:** Will not occur  
**CONDITIONS TO AVOID:** exposure to air, excess heat.  
**INCOMPATIBILITY:** Strong acids, iron salts, zinc, alkaloids, sodium nitrate, sodium hypochlorite, aluminum.  
**DECOMPOSITION PRODUCTS:** Nitrogen oxides, oxides of carbon, ammonia, urea

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## SECTION 11 Toxicological Information

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**CARCINOGENIC EFFECTS:** Not Listed  
**MUTAGENIC EFFECTS:** None  
**REPRODUCTIVE EFFECTS:** None  
**TETRATOGENIC EFFECTS:** None

To the best of our knowledge the toxicological effects of this compound have not been fully investigated. Not intended for drug or household use. To be used by a qualified individual only.

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## SECTION 12 Ecological Information

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**ECOLOGICAL INFORMATION:** Listed on CWA. Do not allow product to reach ground water, water course or sewage system, even in small quantities. Do not allow material to be released to the environment without proper governmental permits.

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## SECTION 13 Disposal Considerations

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**DISPOSAL:** Dispose of in accordance with local state and federal regulations. Use a licensed disposal firm.

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## SECTION 14 Transportation Information

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NON-REGULATED MATERIAL DOT (FOR U.S.A.)

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## **SECTION 15      Regulatory Information**

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**USA RQ: 5000 lbs**

**TSCA:** Listed

**SARA (TITLE 313/302):** Not reportable under Title 313 or Title 302

**SARA (TITLE 311/312):** Acute: Yes      Chronic: No

**CLEAN AIR ACT:** Does not contain hazardous air pollutants; Does not contain any Class 1 or Class 2 Ozone Depleters.

**CLEAN WATER ACT:** Listed as hazardous substance. Not listed as a Priority pollutant. under the CWA

**OSHA:** Not Listed

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## **SECTION 16      Other Information**

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**DISCLAIMER:** The information herein is believed to be accurate and reliable as of the date compiled. However, ProChem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

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