



SAFETY DATA SHEET

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SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Ammonium Carbonate**

PRODUCT NO: 1051

CAS NO: 506-87-6

SYNONYMS: Ammonium sesquicarbonate, Carbonic acid, Ammonium salt

MANUFACTURER:

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SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

Warning

Hazard Statements

H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation.

Precautionary Phrases

P264	Wash skin thoroughly after handling
P270	Do not eat, drink, or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician IF you feel unwell.
P302 + P352	IF ON SKIN: wash with plenty of soap and water.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313	IF SKIN irritation occurs: Get medical advice/attention.
P337 + P313	IF eye irritation persists: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.

SECTION 2 HAZARDS IDENTIFICATION (Cont.)

NFPA RATING:

HEALTH: 1

FLAMMABILITY: 0

INSTABILITY: 1

POTENTIAL HEALTH EFFECTS: Respiratory system, eyes, skin, and digestive tract.

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

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

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

Molecular Weight: 96.07

CHEMICAL NAME	CAS#	%	ACGIH (TWA)	OSHA (PEL)
Ammonium Carbonate	506-87-6	100	25 ppm	50 ppm

SECTION 4 FIRST AID MEASURES

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. 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

FLASH POINT: Not flammable or combustible

AUTO IGNITION TEMPERATURE: Not applicable

EXPLOSION LIMITS: Not applicable

EXTINGUISHING MEDIUM: Any means suitable for surrounding fire.

SPECIAL FIRE FIGHTING 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

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear appropriate protection including NIOSH/MSHA approved respirator, chemical resistant gloves, safety goggles, and protection to avoid contact with clothing and shoes. Avoid breathing vapors, mist, gas, or dust.

ENVIRONMENTAL PRECAUTIONS: Do not allow release into environment.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Isolate spillage. Vacuum or sweep up trying not to generate dust; place into a suitable disposal container. Retain all contaminated soilage for removal and treatment. Dispose of in accordance with all waste disposal regulations.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Avoid contact with skin, eyes, and clothing. Wear appropriate personal protective equipment when handling. Handle only in an efficient chemical fume hood. Should only be handled by qualified personnel.

CONDITIONS FOR SAFE STORAGE: Keep tightly closed when not in use. Decomposes on exposure to air. Air and moisture sensitive. Causes eye and respiratory irritation. Store in a dry, well-ventilated area away from incompatible materials.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

EYE PROTECTION: Always wear approved safety glasses with side shields, safety goggles, and face shield when handling a chemical substance in the laboratory.

SKIN PROTECTION: Chemical resistant, impervious.

VENTILATION: Handle in an efficient chemical fume hood.

RESPIRATOR: For nuisance exposures use type P9 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved government standards such as NIOSH (US) or CEN (EU).

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

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

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

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: White powder

ODOR: Ammonia-like

MOLECULAR WEIGHT: 96.07

MELTING POINT: 58° C

SPECIFIC GRAVITY: 1.500 @ 68° F

BOILING POINT: 760 mm Hg (decomposes)

VAPOR PRESSURE: Not applicable

VAPOR DENSITY: Not applicable

% VOLATILE BY VOLUME: Non volatile

SOLUBILITY IN WATER: Soluble in cold water, decomposes in hot water.

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable if stores under proper conditions. Air, moisture, and heat sensitive. Converts to ammonium bicarbonate, which liberates ammonia and carbon dioxide.

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: Exposure to air, excess heat.

INCOMPATIBILITY: Strong acids, iron salts, zinc, alkaloids, sodium nitrate, sodium hypochlorite, and aluminum.

DECOMPOSITION PRODUCTS: Nitrogen oxides, oxides of carbon, ammonia, and urea.

SECTION 11 TOXICOLOGICAL DATA

ACUTE TOXICITY: LD50Oral-Rat-male and female-2,150 mg/kg(OECD Test Guideline 401). LD50Oral-Rat-female-1,800 mg/kg(OECD Test Guideline 401)Inhalation: No data availableLD50Dermal-Rat-> 2,000 mg/kg(OECD Test Guideline 402)LD50Intravenous-Mouse-96 mg/kg

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 qualified individuals only.

SECTION 12 ECOLOGICAL DATA

Toxicity to fish: LC50-Fish-119.46 mg/l-96 h

Remarks: Read-across (Analogy)

Toxicity to daphnia and other aquatic invertebrates: LC50-Daphnia magna (Water flea)-324.9 mg/l-48 h

Toxicity to algae: static test EC50-Pseudokirchneriella subcapitata (green algae)-252.92 mg/l-72 h static test NOEC-Pseudokirchneriella subcapitata (green algae)-50 mg/l-72 h – ADD

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.

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local state and federal regulations.

SECTION 14 TRANSPORTATION DATA

Non-Hazardous

SECTION 15 REGULATORY INFORMATION

TSCA: Listed

USA RQ: 5000 lbs.

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

SECTION 16 OTHER INFORMATION

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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