

# SAFETY DATA SHEET

## AMMONIUM CARBONATE

### SECTION 1: CHEMICAL AND COMPANY IDENTIFICATION

**BioShop Canada Inc.**  
5480 Mainway  
Burlington, Ontario L7L 6A4  
1-800-234-1179  
Emergency Telephone No.: 1-905-466-3832  
Chemical Name: Ammonium carbonate  
Catalog Number: AMC555

### SECTION 2 HAZARDS IDENTIFICATION

**GHS Classification:**  
Acute toxicity, Oral (Category 4)

**Pictogram:**



**Signal word:** WARNING

**Hazard statement**  
H302 Harmful if swallowed.

**Precautionary statement**  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.  
P501 Dispose of contents/ container to an approved waste disposal plant.

**Potential Health Effects**

**Target Organs:** Eyes, skin, respiratory tract.  
**Eyes:** Causes irritation  
**Skin:** Causes irritation.  
**Inhalation:** Causes irritation to respiratory tract. Ammonia vapors may cause pulmonary edema.  
**Ingestion:** May cause irritation to GI tract. May cause nausea, vomiting and diarrhea.  
**CHRONIC HEALTH HAZARDS;** No information found.

### SECTION 3 COMPOSITION/ INGREDIENTS

**Ammonium carbonate** : CAS # 506-87-6 % >99%

**Molecular Formula:** CH<sub>8</sub>N<sub>2</sub>O<sub>3</sub>  
**Molecular Weight:** 96.07

### SECTION 4 FIRST AID MEASURES

**Eyes:** Flush eyes with water , GET MEDICAL ATTENTION  
**Skin:** In case of contact, flush area immediately with water. GET MEDICAL ATTENTION.  
**Inhalation:** Remove victim to fresh air. If not breathing give artificial respiration. If breathing is difficult give oxygen and GET MEDICAL ATTENTION.  
**Ingestion:** Wash mouth with water. Do not induce vomiting. GET MEDICAL ATTENTION.

### SECTION 5 FIRE FIGHTING MEASURES

**Flammable:** No  
**Flash Point:** N/A  
**Autoignition Temperature:** N/A  
**Extinguishing Media:** Use water spray, foam, dry chemical or carbon dioxide.  
**Explosion Data:** Not available

### SECTION 6 ACCIDENTAL RELEASE MEASURES

Ventilate the area. Wear appropriate protective equipment. Sweep and place in a closed container.  
**Leak and Spill Procedures:** Ventilate the area. Wear appropriate protective equipment. Cover with dry lime or soda. Sweep and place in a closed container

### SECTION 7 HANDLING AND STORAGE

**Handling:** Avoid contact. Do not get in eyes, on skin, or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse.  
**Storage Conditions:** Room temperature.

### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits: none listed  
Use adequate ventilation. AVOID DUST GENERATION.  
Wear appropriate protective equipment to prevent eye and skin exposure. Wear appropriate respirator to prevent lung irritation.  
**Personal Protection:** Lab coat, safety goggles, rubber gloves.  
**Ventilation:** Local exhaust systems. Use fume hood  
**Respiratory protection:** use OSHA/MSHA approved respirator.

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

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## AMMONIUM CARBONATE

**Physical State:** Crystalline solid  
**Appearance and Odor:** white, strong ammonia odor  
**Melting Point:** 58° C  
**Decomposition Temp.:** 58° C  
**Boiling Point:** N/A  
**Specific Gravity:** 1.62  
**Vapor Density:** N/A  
**Water Solubility:** yes  
**pH:** 9.3 (10% soln.)

### SECTION 16 ADDITIONAL INFORMATION

Prepared By: M.Kierdelewicz (President)  
Date Prepared: Dec 29/2021  
Phone: (800) 234-1179

### SECTION 10 STABILITY AND REACTIVITY:

**Stability:** Stable at normal room temperature and pressure. Unstable in air. Decomposes to ammonium bicarbonate with release of ammonia and carbon dioxide.

**Conditions to avoid:** dust generation and excess heat, exposure to air. Ammonia solutions are corrosive to copper, aluminum.

**Incompatibility:** strong acids and bases, iron salts

**Hazardous Decomposition Products:** nitrogen oxides, carbon dioxide, ammonia

**Hazardous Polymerization:** Has not been reported

The information provided on this Material Safety Data Sheet is furnished in good faith and without warranty of any kind. The above information is believed to be correct and should be used only as a guide. BioShop Canada Inc. shall not be held liable for any damage resulting from the handling or from the contact with the above product. Observe all federal, provincial and state laws concerning health, safety and pollution.

### SECTION 11 TOXICOLOGICAL PROPERTIES

#### Exposure Limits:

Oral, rat: LD50= >681 mg/kg  
Inhalation, mouse: LC50=4230 ppm/1H

**Epidemiology:** No data available

**Teratogenicity:** No data available

**Reproductive Effects:** No data available

**Neurotoxicity:** No data available

**Mutagenicity:** No data available

**Carcinogenicity:** Not listed by ACGIH, IARC, NTP, or OSHA

### SECTION 12 ECOLOGICAL INFORMATION

No information found.

### SECTION 13 DISPOSAL CONSIDERATION

**Waste Disposal:** Burn in chemical incinerator. Observe all Federal, provincial and local regulations.

### SECTION 14 TRANSPORT INFORMATION

**Shipping Information:** Not regulated

### SECTION 15 REGULATORY INFORMATION

**US:** TSCA: listed  
**European/International:** N/A  
**Canada:** WHMIS: D2B