

## SAFETY DATA SHEET

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifiers

|              |   |
|--------------|---|
| Product name | Ammonium Carbonate  |
| CAS number   | 507-87-6  |
| Synonyms     | Ammonium sesquicarbonate; Carbonic acid, diammonium salt; Crystal ammonia |

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

|                 |                      |
|-----------------|----------------------|
| Identified uses | Laboratory Chemicals |
|-----------------|----------------------|

#### 1.3 Details of the supplier of the safety data sheet

|           |  |
|-----------|--|
| Company   | Lab Alley, LLC<br>12501 Pauls Valley Road<br>Austin, Texas 78737<br>U.S.A. |
| Telephone | 512-668-9918   |
| Fax       | 512-886-4008   |

#### 1.4 Emergency telephone

|                   |                              |          |
|-------------------|------------------------------|----------|
| Emergency Phone # | US & Canada: 1-800-535-5053  | INFOTRAC |
|                   | International 1-352-323-3500 | INFOTRAC |

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

#### 2.2 GHS Label elements, including precautionary statements

Pictogram                      None needed

Signal Word                      Not applicable

Hazard statements              None needed

### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

No information available

## SECTION 3: Composition/information on ingredients

### 3.1 Components

| Chemical name      | Common name and synonyms   | CAS number | Concentration |
|--------------------|--|------------|---------------|
| Ammonium carbonate | Ammonium sesquicarbonate; Carbonic acid, diammonium salt; Crystal ammonia (Lumps/HPLC/Laboratory/Certified ACS/NF) | 506-87-6   | >95%          |

## SECTION 4: First aid measures

### 4.1 Description of first-aid measures

#### General advice

**If inhaled**                      Remove to fresh air. If breathing is difficult, give oxygen. Get medical attention if symptoms occur.

**In case of skin contact**      Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.

**In case of eye contact**        Rinse off immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

**If swallowed**                      Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.

### 4.2 Most important symptoms and effects, both acute and delayed

None reasonably foreseeable

### 4.3 Indication of any immediate medical attention and special treatment needed

No information available

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media** No information available

**Unsuitable extinguishing media** No information available

## **5.2 Specific hazards arising from the substance or mixture**

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

## **5.3 Special protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## **5.4 Further information**

No information available

# **SECTION 6: Accidental release measures**

## **6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation.

## **6.2 Environmental precautions**

Should not be released into environment. Do not flush into surface water or sanitary sewer system.

## **6.3 Methods and materials for containment and cleaning up**

Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal.

## **6.4 Reference to other sections**

See section 2 for full list of hazard and precaution statements.

# **SECTION 7: Handling and storage**

## **7.1 Precautions for safe handling**

### **Precautions on safe handling**

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid ingestion and inhalation. Avoid dust formation. Do not get in eyes, on skin, or on clothing.

### **Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice.

## **7.2 Conditions for safe storage, including any incompatibilities**

### **Storage conditions**

Keep containers tightly closed in a dry, cool and well-ventilated place. Store under an inert atmosphere.

## **Incompatibilities**

No information available

## **SECTION 8: Exposure controls/personal protection**

### **8.1 Occupational exposure limits**

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

### **8.2 Exposure controls**

#### **Appropriate engineering controls**

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

#### **Personal protective equipment**

##### **Eye/face protection**

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

##### **Skin protection**

Wear appropriate protective gloves and clothing to prevent skin exposure

##### **Body Protection**

Wear appropriate protective gloves and clothing to prevent skin exposure

##### **Respiratory protection**

No protective equipment needed under normal use conditions.

##### **Control of environmental exposure**

Do not allow to be released into environment. Do not wash into ground water or sanitary sewer system.

## **SECTION 9: Physical and chemical properties**

### **9.1 Information on basic physical and chemical properties**

|                     |                          |
|---------------------|--------------------------|
| Physical State      | Solid                    |
| Appearance          | White                    |
| Odor                | Ammonia-like             |
| Odor Threshold      | No information available |
| pH                  | 9.4 (10 %)               |
| Melting Point/Range | 58 °C / 136.4 °F         |

|  |                          |
|--|--------------------------|
| Boiling Point/Range                    | No information available |
| Evaporation Rate                       | No information available |
| Flammability (solid)                   | No information available |
| Flammability or explosive limit        | No information available |
| Vapor Pressure                         | 69 hPa @ 20 °C           |
| Vapor Density                          | No information available |
| Density                                | No information available |
| Solubility                             | Soluble in water         |
| Partition coefficient; n-octanol/water | No information available |
| Autoignition Temp                      | No information available |
| Decomposition Temp                     | No information available |
| Viscosity                              | No information available |
| Molecular Formula                      | C H8 N2 O3               |
| Molecular Weight                       | 96.09                    |
| VOC Content(%)                         | No information available |
| Oxidizing properties                   | No information available |

## 9.2 Other safety information

No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

None known, based on information available

### 10.2 Chemical stability

Stable under normal conditions. Air sensitive

### 10.3 Possibility of hazardous reactions

Nitrogen Oxides (NOx), Ammonia

### 10.4 Conditions to avoid

Avoid dust formation. Incompatible products. Excess heat. Temperatures above 55C.

### 10.5 Incompatible materials

Strong oxidizing agents.

### 10.6 Hazardous decomposition products

Nitrogen Oxides (NOx), Ammonia

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Product Information, Component Information

#### Acute toxicity

| Component          | LD50 Oral        | LD50 Dermal | LC50 Inhalation |
|--------------------|------------------|-------------|-----------------|
| Ammonium Carbonate | 2150 mg/kg (Rat) | Not listed  | Not listed      |

#### **Skin corrosion/irritation**

No information available

#### **Serious eye damage/eye irritation**

No information available

#### **Respiratory or skin sensitization**

No information available

#### **Germ cell mutagenicity**

No information available

#### **Carcinogenicity**

| Component          | CAS      | IARC       | NTP        | ACGIH      | OSHA       | Mexico     |
|--------------------|----------|------------|------------|------------|------------|------------|
| Ammonium Carbonate | 506-87-6 | Not listed | Not listed | Not listed | Not listed | Not listed |

#### **Specific target organ toxicity - single exposure**

None known

#### **Specific target organ toxicity - repeated exposure**

None known

#### **Reproductive toxicity**

No information available

#### **Chronic effects**

No information available

## **11.2 Additional Information**

The toxicological properties have not been totally investigated

## **SECTION 12: Ecological information**

### **12.1 Toxicity**

| Product            |      | Species                       | Test Results |
|--------------------|------|-------------------------------|--------------|
| Ammonium Carbonate | LC50 | Freshwater Fish (P. promelas) | 37 mg/L, 96h |

### **12.2 Persistence and degradability**

Soluble in water. Persistence is unlikely based on information available.

### **12.3 Bio accumulative potential**

No information available.

#### 12.4 Mobility in soil

Will likely be mobile in environment due to water solubility.

#### 12.5 Results of PBT and vPvB assessment

No information available

#### 12.6 Endocrine disrupting properties

No information available

#### 12.7 Other adverse effects

No information available

### SECTION 13: Disposal considerations

#### 13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

### SECTION 14: Transport information

**DOT (US)** Not listed

**IMDG** Not listed

**IATA** Not listed

### SECTION 15: Regulatory information

**US federal regulations** This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**  
Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)**  
Not listed.

**SARA 304 Emergency release notification**  
Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)**  
Not regulated.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**  
**SARA 302 Extremely hazardous substance**  
Not listed.

**SARA 311/312 Hazardous**

Not applicable

**SARA 313 (TRI reporting)**

Not regulated.

**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act**

Not regulated

**FEMA Priority Substances Respiratory Health and Safety in the Flavor  
Manufacturing Workplace**

Not regulated

**Food and Drug Administration (FDA)**

Not regulated

**US state regulations**

**US. Massachusetts RTK - Substance List**

Listed

**US. New Jersey Worker and Community Right-to-Know Act**

Listed

**US. Pennsylvania Worker and Community Right-to-Know Law**

Listed

**California Proposition 65**

Not listed

**SECTION 16: Other information**

Revision date: 06/21/2024

Revision 1: 07/02/2025

**SECTION 17: Disclaimer**



The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.