



# SAFETY DATA SHEET

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## AMMONIUM BICARBONATE

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Ammonium Bicarbonate, Coated Quality

**OTHER/GENERIC NAMES:** Acid ammonium carbonate, ammonium carbonate, ammonium hydrogen carbonate

**PRODUCT USE AND RESTRICTIONS ON USE:** Food additive and chemical intermediate.

**SUPPLIER:** Esseco USA LLC  
4 Gatehall Drive  
Parsippany, NJ 07054

**MANUFACTURER:** BASF SE  
67056 Ludwigshafen  
GERMANY  
Division Monomers

**FOR MORE INFORMATION CALL:** 973-267-3330  
(Monday-Friday, 9:00am-4:30pm)

**FOR EMERGENCY IN USA, CALL CHEMTREC:** 800-424-9300  
(24 Hours/Day, 7 Days/Week)

### 2. HAZARDS IDENTIFICATION

#### GHS Classification

Acute Toxicity Category 4 (Oral)

#### Label Elements:



#### WARNING!

Harmful if swallowed.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.

Rinse mouth.

Dispose of contents and container in accordance with local, state, and federal regulations.



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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| <u>INGREDIENT NAME</u> | <u>CAS NUMBER</u> | <u>WEIGHT %</u> |
|------------------------|-------------------|-----------------|
| Ammonium bicarbonate   | 1066-33-7         | ≥99.3           |

Trace impurities and additional material names not listed above may appear in Section 15 of this SDS. These materials may be listed for local "Right-To-Know" compliance and for other reasons. The exact concentrations are a trade secret.

### 4. FIRST AID MEASURES

|                                                                                                                                        |                                                                                                                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SKIN:</b>                                                                                                                           | Wash skin with plenty of soap and water. Remove contaminated clothing and launder before reuse. Get medical attention if irritation persists.                                       |
| <b>EYES:</b>                                                                                                                           | Flush eyes with water for several minutes. Remove contact lenses if present if you can do so easily and continue flushing. Get medical attention if irritation occurs and persists. |
| <b>INHALATION:</b>                                                                                                                     | Remove to fresh air. If breathing is difficult, give oxygen, provided a qualified operator is available. If symptoms persist, get medical attention.                                |
| <b>INGESTION:</b>                                                                                                                      | Rinse with water and give 1 glass of water or milk to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms develop.       |
| <b>MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED: INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT, IF NEEDED:</b> | May cause eye, skin, and respiratory tract irritation. May be harmful if swallowed.<br><br>Immediate medical attention should not be required. Treat symptomatically.               |

### 5. FIRE FIGHTING MEASURES

#### SUITABLE (AND UNSUITABLE) EXTINGUISHING MEDIA:

Material is not flammable. Use extinguishing media appropriate for material in surrounding fire.

#### SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

Thermal decomposition will generate toxic and corrosive ammonia gas and oxides of nitrogen.

#### SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTING:

Wear NIOSH-approved self-contained breathing apparatus to protect against any release of toxic and/or irritating fumes. Skin and eye protection should also be provided. Use water-spray to keep fire-exposed containers cool, and to knock down vapors and gases.



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### 6. ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES:** Ventilate the area to remove ammonia vapors. Wear appropriate personal protective equipment.

**ENVIRONMENTAL PRECAUTIONS:** Spills and releases may have to be reported to Federal and/or local authorities. See Section 15 regarding reporting requirements.

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:** Promptly shovel or sweep up material with minimum dusting and shovel into an empty container with a cover. Clean spill area with plenty of water.

### 7. HANDLING AND STORAGE

**PRECAUTIONS FOR SAFE HANDLING:** (See section 8 for recommended personal protective equipment.)

Avoid contact with skin, eyes and clothing. Do not breathe dust or mist. Use with adequate ventilation. Wash thoroughly after handling.

**CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:**

Store in a cool, dry, well-ventilated area away from incompatible materials. Keep container closed when not in use and protect from physical damage.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### EXPOSURE GUIDELINES

| <u>INGREDIENT NAME</u> | <u>ACGIH TLV</u> | <u>OSHA PEL</u> | <u>OTHER LIMIT</u> |
|------------------------|------------------|-----------------|--------------------|
| Ammonium bicarbonate   | None             | None            | None               |

**OTHER EXPOSURE LIMITS FOR POTENTIAL DECOMPOSITION PRODUCTS:**

Ammonia: OSHA TWA = 50 ppm  
ACGIH TLV = 25 ppm  
ACGIH STEL = 35 ppm

**APPROPRIATE ENGINEERING CONTROLS:**

Provide local exhaust if dusty or misty conditions exist or if there is a release of ammonia. Keep incompatible materials out of hoods, ducts, etc.

#### INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT

**SKIN PROTECTION:**

For handling dry material, wear rubber gloves and full work clothing, including long-sleeved shirt and trousers. When handling solutions, wear impervious gloves and an apron. If contact with the solution is repeated and/or prolonged, wear full impervious clothing.

**EYE PROTECTION:**

Wear chemical safety glasses/goggles.



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**RESPIRATORY PROTECTION:** Where required, use a NIOSH-approved respirator for dust, mist, and /or ammonia, as conditions indicate. Some exposures may require a NIOSH-approved self-contained breathing apparatus or supplied-air respirator. Equipment selection depends on contaminant type and concentration. Select in accordance with 29 CFR 1910.134 and good industrial hygiene practice.

**ADDITIONAL RECOMMENDATIONS:** Eyewash and safety shower are recommended.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                          |                                  |                                     |
|------------------------------------------|----------------------------------|-------------------------------------|
| APPEARANCE:                              | White granules or crystals.      |                                     |
| PHYSICAL STATE:                          | Solid.                           |                                     |
| ODOR:                                    | Slight ammonia odor.             |                                     |
| ODOR THRESHOLD:                          | Not determined.                  |                                     |
| MOLECULAR WEIGHT:                        | 79.06                            |                                     |
| CHEMICAL FORMULA:                        | CH <sub>5</sub> O <sub>3</sub> N |                                     |
| RELATIVE DENSITY (water = 1.0):          | 1.586                            |                                     |
| SOLUBILITY IN WATER (weight %):          | 17.4% @ 20° C (68° F)            |                                     |
| pH:                                      | ~7.6 (10% w/w solution)          |                                     |
| INITIAL BOILING POINT/RANGE:             | Not applicable.                  |                                     |
| MELTING/FREEZING POINT:                  | 107.85° C (226.13° F)            |                                     |
| VAPOR PRESSURE:                          | Not applicable.                  |                                     |
| RELATIVE VAPOR DENSITY (air = 1.0):      | Not applicable.                  |                                     |
| EVAPORATION RATE:                        | Not applicable.                  | <b>COMPARED TO:</b> Not applicable. |
| % VOLATILES:                             | Not applicable.                  |                                     |
| PARTITION COEFFICIENT (N-OCTANOL/WATER): | Not determined.                  |                                     |
| KINEMATIC VISCOSITY:                     | Not applicable.                  |                                     |
| FLASH POINT:                             | Not flammable.                   |                                     |
| FLASH POINT METHOD:                      | Not applicable.                  |                                     |
| AUTOIGNITION TEMPERATURE:                | Not applicable.                  |                                     |
| UPPER FLAME LIMIT (volume % in air):     | Not applicable.                  |                                     |
| LOWER FLAME LIMIT (volume % in air):     | Not applicable.                  |                                     |
| DECOMPOSITION TEMPERATURE:               | Not determined.                  |                                     |
| FLAMMABILITY:                            | Not flammable.                   |                                     |
| OSHA FLAMMABILITY CLASS:                 | Not applicable.                  |                                     |
| PARTICLE CHARACTERISTICS:                | Not available.                   |                                     |

### 10. STABILITY AND REACTIVITY

**REACTIVITY:**  
Not normally reactive

**CHEMICAL STABILITY:**  
Normally stable.

**POSSIBILITY OF HAZARDOUS REACTIONS:**  
None known.

**CONDITIONS TO AVOID:**  
Avoid elevated temperatures.



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### INCOMPATIBILITIES:

Strong oxidizers, strong acids, alkalis.

### HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon monoxide, carbon dioxide, nitrogen oxides, ammonia.

## 11. TOXICOLOGICAL INFORMATION

### POTENTIAL HEALTH HAZARDS

#### ACUTE EFFECTS OF EXPOSURE:

- SKIN:** Dust, solutions or mist may cause skin irritation from repeated or prolonged contact.
- EYES:** Dust, solutions or mist may irritate the eyes.
- INHALATION:** Inhalation of product dust or mist may irritate the respiratory tract.
- INGESTION:** Ingestion may cause irritation of the gastrointestinal tract and purging, if a large quantity is ingested. Relatively low in acute toxicity.
- CHRONIC EFFECTS:** None known.

Ingredients found on one of the three OSHA designated carcinogen lists are listed below.

| <u>INGREDIENT NAME</u>                 | <u>NTP STATUS</u> | <u>IARC STATUS</u> | <u>OSHA LIST</u> |
|----------------------------------------|-------------------|--------------------|------------------|
| No ingredients listed in this section. | ----              | ----               | ----             |

### NUMERICAL MEASURES OF TOXICITY:

#### Immediate (Acute) Effects:

Ammonium Bicarbonate - LD<sub>50</sub> (oral, rat) = 1576 mg/kg.

#### Delayed (Subchronic and Chronic) Effects:

Data not available.

#### Other Data:

None

## 12. ECOLOGICAL INFORMATION

### ECOTOXICITY:

The following ecotoxicity data is available for Ammonium bicarbonate:  
Oncorhynchus mykiss LC50 96 hrs 17.3 mg/l

### PERSISTENCE AND DEGRADABILITY:

No data available

### BIOACCUMULATIVE POTENTIAL:

No data available



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### MOBILITY IN SOIL:

No data available

### OTHER ADVERSE EFFECTS:

No data available.

## 13. DISPOSAL CONSIDERATIONS

### RCRA

Is the unused product a RCRA hazardous waste if discarded? No

If yes, the RCRA ID number is: Not applicable.

### OTHER DISPOSAL CONSIDERATIONS:

Dispose of in accordance with applicable Federal, State and Local regulations.

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product such as mixing with other materials may significantly change the characteristics of the material and alter the RCRA classification and the proper disposal method.

## 14. TRANSPORT INFORMATION

US DOT HAZARD CLASS: Not regulated.  
US DOT ID NUMBER: Not applicable.  
PROPER SHIPPING NAME: Not applicable.

For additional information on shipping regulations affecting this material, contact the information number found in Section 1.

## 15. REGULATORY INFORMATION

### TOXIC SUBSTANCES CONTROL ACT (TSCA)

TSCA INVENTORY STATUS: All components are listed on TSCA Inventory of Chemical Substances.  
OTHER TSCA ISSUES: None.

### SARA TITLE III/CERCLA

"Reportable Quantities" (RQs) and/or "Threshold Planning Quantities" (TPQs) exist for the following ingredients.

| INGREDIENT NAME      | SARA/CERCLA RQ (lb) | SARA EHS TPQ (lb) |
|----------------------|---------------------|-------------------|
| Ammonium bicarbonate | 5000                | ----              |

Spills or releases resulting in the loss of any ingredient at or above its RQ requires immediate notification to the National Response Center [(800) 424-8802] and to your Local Emergency Planning Committee. Many states have more stringent regulations. Report all spills in accordance with local, state and federal regulations.

SECTION 311 HAZARD CLASS: See OSHA Hazard Classification in Section 2.

SARA 313 TOXIC CHEMICALS:



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The following ingredients are SARA 313 "Toxic Chemicals" and may be subject to annual reporting requirements. CAS numbers and weight percents are found in Section 2.

**INGREDIENT NAME**

No ingredients listed in this section.

**COMMENT**

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**STATE RIGHT-TO-KNOW**

In addition to the ingredients found in Section 2, the following are listed for state right-to-know purposes.

**INGREDIENT NAME**

No ingredients listed in this section.

**WEIGHT %**

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**COMMENT**

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**CALIFORNIA PROPOSITION 65**

This product does not contain any ingredients known to the State of California to cause cancer and/or reproductive harm.

**ADDITIONAL REGULATORY INFORMATION:**

None

**FOREIGN CHEMICAL CONTROL INVENTORY STATUS:**

Listed on Canadian DSL, Australian AICS, Philippines PICCS, Chinese IECSC, Japanese MITI, Korean KECL, and EU EINECS.

### 16. OTHER INFORMATION

**CURRENT ISSUE DATE:** September, 2026

**PREVIOUS ISSUE DATE:** December, 2021

**CHANGES TO SDS FROM PREVIOUS ISSUE DATE ARE DUE TO THE FOLLOWING:**

Updated SDS for HCS 2024.

**OTHER INFORMATION:** None.

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