



Material Safety Data Sheet

Ammonium Bicarbonate MSDS

1. SUBSTANCE IDENTIFICATION

- 1.1. Product Name: [Ammonium Bicarbonate](#)
- 1.2. Description: Ammonium Bicarbonate is a inorganic compound manufactured through chemical synthesis.
- 1.3. Chemical Formula: CH₅NO₃
- 1.4. Molecular weight: 79.05
- 1.5. CAS #: 1066-33-7
- 1.6. EINECS #: 213-911-5
- 1.7. Manufactured by: Foodchem International Corporation, Shanghai China.
- 1.8. Supplied by: Foodchem International Corporation, Shanghai China.
- 1.9. Usage: In food as raising agent

2. Composition

- 2.1. Ammonium Bicarbonate: >99%
- 2.2. Hazardous impurities: Lead 3 mg/kg , Arsenic 2 mg/kg , Total Heavy metal (as Pb) 10 mg/kg

3. Physical/Chemical Characteristics

- 3.1. Physical State: powder.
- 3.2. Appearance: White crystals or crystalline powder
- 3.3. Odor: Ammoniacal. (Slight.)
- 3.4. pH: 7
- 3.5. Melting point/range: 107.5 ° C (225.5 ° F)
- 3.6. Boiling point: Not available
- 3.7. Bulk density: 1.59 g/cm³ (20 C)
- 3.8. Solubility: Soluble in cold water, hot water.

4. Stability/Reactivity

- 4.1. Chemical Stability: Stable under normal temperatures and pressures
- 4.2. Shelf Life: 12 months period
- 4.3. Hazardous decomposition: Nitrogen oxides, carbon monoxide, carbon dioxide, ammonia and/or derivatives.
- 4.4. Hazardous polymerization: Will not occur
- 4.5. Incompatible with: Can react dangerously with acids, caustic alkalies, and strong oxidizing agents.

5. Handling/Storage

- 5.1. Storage: Stored in a cool and dry place and Keep away from strong light and heat
- 5.2. Handling precaution: Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with skin and eyes. Avoid ingestion and inhalation.

6. Exposure Control

- 6.1. Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits.
- 6.2. Respiratory protection: NIOSH/MSHA or European Standard EN 149 approved respirator
- 6.3. Eye Protection: Protective eyeglasses or chemical safety goggles
- 6.4. Skin Protection: Wear appropriate protective gloves and clothes to minimize skin contact.
- 6.5. Other: Consult professionals if Ammonium Bicarbonate need to be handled under some special conditions.



7. Hazards Identification

- 7.1. Hazardous overview: Ammonium Bicarbonate is Hazardous in case of skin contact (irritant, permeator), of eye contact (irritant), of ingestion, of inhalation.
- 7.2. Contact with eyes: May cause mild eye irritation.
- 7.3. Contact with skin: May cause mild skin irritation. Low hazard for usual industrial handling.
- 7.4. Ingestion: Ingestion of large amounts may cause gastrointestinal irritation. Expected to be a low ingestion hazard.
- 7.5. Inhalation: Low hazard for usual industrial handling. Excessive inhalation may cause minor respiratory irritation.
- 7.6. Other: Containers may explode when heated.

8. First Aid Measures

- 8.1. Contact with eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation develops, get medical aid.
- 8.2. Contact with skin: Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.
- 8.3. Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.
- 8.4. Inhalation: Remove from exposure to fresh air immediately. Get medical aid if cough or other symptoms appear.

9. Fire and Explosion Data

- 9.1. General information: Non-flammable.
- 9.2. Flash point: Not available
- 9.3. Ignition control: Not available
- 9.4. Dust control: Keep the handling area with adequate ventilation
- 9.5. Extinguishing Media: Not available
- 9.6. Spills/Leaks: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

10. Transport Information

- 10.1. No special requirements and no restrictions on transportation by land, sea or air.

11. Ecological Information

- 11.1. Ammonium Bicarbonate is fully degradation biodegradable. The products of degradation are more toxic.

12. Other Information

- 12.1. This Safety Data Sheet of Ammonium Bicarbonate is based upon a limited review of Foodchem International Corporation files and standard Toxicological handbooks. We make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Foodchem International Corporation be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Foodchem International Corporation has been advised of the possibility of such damages.

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