## SAFETY DATA SHEET

**Preparation Date:** 10/13/2014  
**Revision Date:** 10/13/2014  
**Revision Number:** G1

### 1. IDENTIFICATION

**Product code:** AM173  
**Product Name:** AMMONIUM CARBONATE, POWDER, FCC

**Other means of identification**

**Synonyms:** Ammonium Carbonate consists of Ammonium Bicarbonate (NH4HCO3) and Ammonium Carbamate (NH2COONH4) in varying proportions

**CAS #:**
- 10361-29-2 (For FCC grade monograph)
- 8000-73-5 (for NF grade and ACS grade monographs)
- 506-87-6 (general CAS number)

**RTECS #:** Not available

**CI#:** Not available

**Recommended use of the chemical and restrictions on use**

**Recommended use:** In baking powders, smelling-salts, fire extinguishing compounds.

**Uses advised against:** No information available

**Supplier:** Spectrum Chemicals and Laboratory Products, Inc.  
14422 South San Pedro St.  
Gardena, CA 90248  
(310) 516-8000  
[Order Online At:](https://www.spectrumchemical.com)

**Emergency telephone number** Chemtrec 1-800-424-9300

**Contact Person:**
- Martin LaBenz (West Coast)
- Ibad Tirmiz (East Coast)

### 2. HAZARDS IDENTIFICATION

**Classification**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin corrosion/irritation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 2A</td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>Category 3</td>
</tr>
</tbody>
</table>

**Label elements**
Warning

Hazard statements
Causes skin irritation
Causes serious eye irritation
May cause respiratory irritation

![Warning Icon]

Hazards not otherwise classified (HNOC)
Not Applicable

Other hazards
Not available

Precautionary Statements - Prevention
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area

Precautionary Statements - Response
Specific treatment (see .? on this label)
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
IF ON SKIN: Wash with plenty of soap and water
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash before reuse
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Precautionary Statements - Storage
Store in a well-ventilated place. Keep container tightly closed
Store locked up

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Weight %</th>
<th>Trade Secret</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium Carbonate</td>
<td>CAS-No. 10361-29-2 or 8000-73-5 or 506-87-6</td>
<td>100</td>
<td>*</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

Product code: AM173
Product name: AMMONIUM CARBONATE, POWDER, FCC
4. FIRST AID MEASURES

First aid measures

General Advice: Poison information centres in each State capital city can provide additional assistance for scheduled poisons (13 1126). First aider needs to protect himself. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention. If skin irritation persists, call a physician.

Eye Contact: Flush eye with water for 15 minutes. Get medical attention.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms: Irritating to eyes. Irritating to skin. Irritating to eyes and respiratory system. Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhoea.

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: The product is not flammable. If it is involved in a fire, extinguish the fire using an agent suitable for the type of surrounding fire.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous Combustion Products: Carbon monoxide, Carbon dioxide, Nitrogen oxides, ammonia

Specific hazards: The substance itself does not burn, but may decompose upon heating

Special Protective Actions for Firefighters

Specific Methods: No information available.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Avoid dust formation.

Product code: AM173

Product name: AMMONIUM CARBONATE, POWDER, FCC
**Environmental precautions**
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Do not let this chemical enter the environment.

**Methods and material for containment and cleaning up**

**Methods for containment**
Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

**Methods for cleaning up**
Sweep up and shovel into suitable containers for disposal. Avoid creating dust. Clean contaminated surface thoroughly.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Technical Measures/Precautions:**
Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.

**Safe Handling Advice:**
Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not ingest. Do not breathe vapours/dust. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

**Technical Measures/Storage Conditions:**
Protect from light. Sensitive to light. Store in light-resistant containers. Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

**Incompatible Materials:**

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

### National occupational exposure limits

#### United States

<table>
<thead>
<tr>
<th>Components</th>
<th>OSHA</th>
<th>NIOSH</th>
<th>ACGIH</th>
<th>AIHA WHEEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium Carbonate CAS-No. 10361-29-2 or 8000-73-5 or 506-87-6</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

#### Canada

<table>
<thead>
<tr>
<th>Components</th>
<th>Alberta</th>
<th>British Columbia</th>
<th>Ontario</th>
<th>Quebec</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium Carbonate CAS-No. 10361-29-2 or 8000-73-5 or 506-87-6</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

#### Australia and Mexico

<table>
<thead>
<tr>
<th>Components</th>
<th>Australia</th>
<th>Mexico</th>
</tr>
</thead>
</table>
Appropriate engineering controls

Engineering measures to reduce exposure: Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

- **Eye protection:** Goggles.
- **Skin and body protection:** Long sleeved clothing. Chemical resistant apron. Gloves.
- **Respiratory protection:** Wear respirator with dust filter..
- **Hygiene measures:** Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES
9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid.
Appearance: Powder.
Color: White.

Odor: Strong. Ammoniacal.
Taste: Ammoniacal.

Flash point (°C): No data available
Flashpoint (°C/°F): No information available.

Lower Explosion Limit (%): No information available
Upper Explosion Limit (%): No information available

pH: No information available
Melting point/range(°C/°F): No information available

Decomposition temperature(°C/°F): 58 °C/136.4 °F
Specific gravity: 1.5

Bulk density: No information available
Vapor pressure @ 20°C (kPa): No information available

Vapor density: No information available
VOC content (g/L): No information available

Partition coefficient (n-octanol/water): No information available
Viscosity: No information available

Solubility: Soluble in cold water
Decomposes in hot water, yielding Ammonia and Carbon dioxide

10. STABILITY AND REACTIVITY

Reactivity
Reactive with acids
Reactive with oxidizing agents

Chemical stability
Stability: Stable at normal conditions

Possibility of Hazardous Reactions: Hazardous polymerization does not occur


Other Information
Corrosivity: No information available

Special Remarks on Corrosivity: No information available
11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:
Ingestion. Inhalation.

Acute Toxicity

Component Information

Ammonium Carbonate
CAS-No. 10361-29-2
or 8000-73-5
or 506-87-6 -

- LD50/oral/rat = No information available
- LD50/oral/mouse = No information available
- LD50/dermal/rabbit = No information available
- LD50/dermal/rat = No information available
- LC50/inhalation/rat = No information available
- LC50/inhalation/mouse = No information available
- Other LD50 or LC50 information = No information available

Product Information

- LD50/oral/rat = VALUE- Acute Tox Oral = No information available
- LD50/oral/mouse = Value - Acute Tox Oral = No information available
- LD50/dermal/rabbit
  VALUE-Acute Tox Dermal = No information available
- LD50/dermal/rat
  VALUE-Acute Tox Dermal = No information available
- LC50/inhalation/rat
  VALUE-Vapor = No information available
  VALUE-Gas = No information available
  VALUE-Dust/Mist = No information available
- LC50/Inhalation/mouse
  VALUE-Vapor = No information available
  VALUE-Gas = No information available
  VALUE-Dust/Mist = No information available

Symptoms

Skin Contact: Causes skin irritation.

Eye Contact: Causes eye irritation. When Ammonium Carbonate is in powdered form, contact with eyes causes eye irritation.

Inhalation: Irritating to respiratory system. Symptoms may include coughing and wheezing. May cause dyspnea (difficulty breathing or shortness of breath).

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Product code: AM173
Product name: AMMONIUM CARBONATE, POWDER, FCC
Aspiration hazard: No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Chronic Toxicity**
- Long term exposure may cause lung problems

**Sensitization:**
- No information available

**Mutagenic Effects:**
- No information available

**Carcinogenic effects:**
- Not considered carcinogenic.

<table>
<thead>
<tr>
<th>Components</th>
<th>ACGIH - Carcinogens</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA HCS - Carcinogens</th>
<th>Australia - Prohibited Carcinogenic Substances</th>
<th>Australia - Notifiable Carcinogenic Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium Carbonate</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
<tr>
<td>CAS-No. 10361-29-2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>or 8000-73-5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>or 506-87-6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Reproductive toxicity:**
- No data is available

**Reproductive Effects:**
- No information available

**Developmental Effects:**
- No information available

**Teratogenic Effects:**
- No information available

**Specific Target Organ Toxicity**

**STOT - single exposure**
- Respiratory system, lungs.

**STOT - repeated exposure**
- No information available

**Target Organs:**
- No information available

### 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

**Ecotoxicity effects:**
- No data available.

**Persistence and degradability:**
- No information available

**Bioaccumulative potential:**
- No information available.

**Mobility:**
- No information available

### 13. DISPOSAL CONSIDERATIONS

**Disposal Methods**

**Waste from residues / unused products:**
- Waste must be disposed of in accordance with Federal, State and Local regulation.

**Contaminated packaging:**
- Empty containers should be taken for local recycling, recovery or waste disposal
14. TRANSPORT INFORMATION

DOT

UN-No: Not regulated (although listed Table 1 to Appendix A - Hazardous Substances Other Than Radionuclides, it is not regulated for transport in sold quantities, which are below the Reportable Quantity (RQ))

Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Risk: Not applicable
Packing Group: None
Marine Pollutant: No data available
ERG No: No information available
DOT RQ (lbs): 5000 lbs./2270 kg (For CAS no. 506-87-6)

TDG (Canada)

UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Risk: No information available
Packing Group: No information available
Description: No information available

ADR

UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Packing Group: No information available
Subsidiary Risk: No information available
Classification Code: No information available
Description: No information available
CEFIC Tremcard No: No information available

IMO / IMDG

UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Risk: No information available
Packing Group: No information available
Description: No information available
IMDG Page: No information available
Marine Pollutant: No information available
MFAG: No information available
Maximum Quantity: No information available

RID

UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available

Product code: AM173
Product name: AMMONIUM CARBONATE, POWDER, FCC
14. TRANSPORT INFORMATION

Subsidiary Risk: No information available
Packing Group: No information available
Classification Code: No information available
Description: No information available

ICAO
UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Risk: No information available
Packing Group: No information available
Description: No information available

IATA
UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Risk: No information available
Packing Group: No information available
Description: No information available

15. REGULATORY INFORMATION

International Inventories

<table>
<thead>
<tr>
<th>Components</th>
<th>U.S. TSCA</th>
<th>KOREA KECL</th>
<th>Philippines (PICCS)</th>
<th>Japan ENCS</th>
<th>CHINA</th>
<th>Australia (AICS)</th>
<th>EINECS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium Carbonate</td>
<td>Present (for CAS no. 10361-29-2 and 506-87-6) Not Present (for CAS no. 8000-73-5)</td>
<td>Present KE-04691 (For CAS no. 10361-29-2) Not Present (For CAS no. 506-87-6) Not Present (For CAS no. 8000-73-5)</td>
<td>Present (For CAS numbers 10361-29-2 and 506-87-6) Not Present (For CAS no. 8000-73-5)</td>
<td>Present (1-)141 (For CAS numbers 10361-29-2 and 506-87-6) Not Present (For CAS no. 8000-73-5)</td>
<td>Present [34043] (For CAS no. 10361-29-2) Present [34042] (For CAS no. 506-87-6) Not Present (For CAS no. 8000-73-5)</td>
<td>Present 233-786-0 (For CAS no. 10361-29-2) Present 208-058-0 (For CAS no. 506-87-6) Not Present (for CAS no. 8000-73-5)</td>
<td></td>
</tr>
</tbody>
</table>

U.S. Regulations

Ammonium Carbonate
CAS-No. 10361-29-2 or 8000-73-5 or 506-87-6

- Massachusetts RTK: Present (for CAS no. 506-87-6)
- New Jersey RTK Hazardous Substance List: sn 0092 (for CAS no. 506-87-6)
- New Jersey - Discharge Prevention - List of Hazardous Substances: Present (for CAS no. 506-87-6)
- Pennsylvania RTK: Environmental hazard (For CAS numbers 10361-29-2 and 506-87-6)
- Pennsylvania RTK - Environmental Hazard List: Present (For CAS numbers 10361-29-2 and 506-87-6)
- New York Release Reporting - List of Hazardous Substances: 5000 lb RQ (air); 100 lb RQ (land/water) (for CAS no. 506-87-6)
- Louisiana Reportable Quantity List for Pollutants: 5000 lb. final RQ; 2270 kg final RQ
- California Directors List of Hazardous Substances: Present (for CAS no. 506-87-6)


- Chemicals Known to the State of California to Cause Cancer: This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

- Chemicals Known to the State of California to Cause Reproductive Toxicity: This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Product code: AM173 Product name: AMMONIUM CARBONATE, POWDER, FCC
Components | Carcinogen | Developmental Toxicity | Male Reproductive Toxicity | Female Reproductive Toxicity
--- | --- | --- | --- | ---
Ammonium Carbonate CAS-No. 10361-29-2 or 8000-73-5 or 506-87-6 | Not Listed | Not Listed | Not Listed | Not Listed

CERCLA/SARA

Components | CERCLA - Hazardous Substances and their Reportable Quantities | Section 302 Extremely Hazardous Substances and TPQs | Section 302 Extremely Hazardous Substances and RQs | Section 313 - Chemical Category | Section 313 - Reporting de minimis
--- | --- | --- | --- | --- | ---
Ammonium Carbonate CAS-No. 10361-29-2 or 8000-73-5 or 506-87-6 | 5000 lb. final RQ; 2270 kg final RQ (for CAS no. 506-87-6) | None | None | None | None

U.S. TSCA

Components | TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS) | TSCA 8(d) - Health and Safety Reporting
--- | --- | ---
Ammonium Carbonate CAS-No. 10361-29-2 or 8000-73-5 or 506-87-6 | Not Applicable | Not Applicable

Canada

WHMIS hazard class:
Non-controlled

Canada Controlled Products Regulation:
This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Inventory

Components | Canada (DSL) | Canada (NDSL)
--- | --- | ---
Ammonium Carbonate CAS-No. 10361-29-2 or 8000-73-5 or 506-87-6 | Present (For all 3 CAS numbers) | Not Listed

Components | CEPA Schedule I - Toxic Substances | CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
--- | --- | ---
Ammonium Carbonate CAS-No. 10361-29-2 or 8000-73-5 or 506-87-6 | Not listed | Not listed

EU Classification

R-phrase(s)
R36/37/38 - Irritating to eyes, respiratory system and skin.
S -phrase(s)
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36 - Wear suitable protective clothing.
S22 - Do not breathe dust.

<table>
<thead>
<tr>
<th>Components</th>
<th>Classification</th>
<th>Concentration Limits:</th>
<th>Safety Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium Carbonate</td>
<td></td>
<td>No information</td>
<td></td>
</tr>
<tr>
<td>CAS-No. 10361-29-2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>or 8000-73-5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>or 506-87-6</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:
Xi - Irritant.

16. OTHER INFORMATION
## 16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>HMIS</th>
<th>Personal Protective Equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

### Preparation Date:
10/13/2014

### Revision Date:
10/13/2014

### Prepared by:
Sonia Owen

### Disclaimer:
All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

See Section 8.

---

**End of Material Safety Data Sheet**