

6007 – Ammonium Carbonate

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 03/31/17

Version: 2

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

1.1. Product identifier

Product name : 6007 – Ammonium Carbonate
Product form : Mixture

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

Use of the substance/mixture : Food industry: component

1.3. Details of the supplier of the safety data sheet

LorAnn Oils, Inc.
4518 Aurelius Road
Lansing, MI 48910
Telephone: 1.800.862.8620

1.4. Emergency telephone number

Emergency number : CHEMTREC: Within USA and Canada: 1.800.424.9300 Outside USA and Canada: +1 703 527 3887

SECTION 2 : Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

Acute Toxicity 4 (oral)
Eye Damage/Irritation 2A
Aquatic Acute 3

2.2. Label elements

GHS label elements: The substance is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms :



Signal word : Warning

Hazard statement : H319 Causes serious eye irritation
H302 Harmful if swallowed
H402 Harmful to aquatic life

Precautionary statement : P280 Wear protective gloves / eye protection / face protection
P273 Avoid release to the environment
P270 Do not eat, drink or smoke when using this product
P264 Wash with water and soap thoroughly after handling
P312 Call a poison control or doctor/physician if you feel unwell
P305/351/338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P301/330 If swallowed, rinse mouth
P337/311 If eye irritation persists: Call a poison center or doctor/physician
P501 Dispose of contents/container to hazardous or special waste collection point

Emergency overview warning : Causes eye irritation
Avoid contact with the skin, eyes and clothing
Avoid inhalation of dusts
Use with local exhaust ventilation
Wear a NIOSH-certified (or equivalent) particulate respirator
Wear NIOSH-certified chemical goggles

Wear chemical resistant protective gloves
Wear protective clothing
Eye wash fountains and safety showers must be easily accessible

SECTION 3: Composition/information on ingredients :

<i>Substances</i>	: 50% Ammonium Carbamate	50% Ammonium Hydrogencarbonate
<i>CAS number</i>	: 1111-78-0	1066-33-7

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice	: Remove contaminated clothing.
First-aid measures after inhalation	: Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary. Immediate medical attention is required.
First-aid measures after skin contact	: Wash affected areas thoroughly with soap and water. If irritation develops, seek medical attention.
First-aid measures after eye contact	: In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. If irritation develops, seek medical attention.
First-aid measures after ingestion	: Rinse mouth and then drink plenty of water. Induce vomiting. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Immediate medical attention required.

4.2. Most Important Symptoms and Effects, both Acute and Delayed

Symptoms : Overexposure may cause: vomiting, shortness of breath, nausea and coughing.

4.3. Indication of any Immediate Medical Attention and Special Treatment Needed

(Note to Physician) Treatment : After inhalation of decomposing products: Pulmonary oedema prophylaxis. Treat according to symptoms (decontamination, vital functions), no known specific antidote, administer corticosteroid dose aerosol to prevent pulmonary oedema.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray, carbon dioxide, foam

5.2. Special hazards arising from the chemical

Hazards during fire-fighting : Ammonia, carbon dioxide. The substances/groups of substances mentioned can be released in case of fire.

5.3. Advice for firefighters

Protective equipment for fire-fighting : Fire-fighters should be equipped with self-contained breathing apparatus and turn-out gear.

5.4. Further information

Product itself is non-combustible; fire extinguishing method of surrounding area must be considered.

SECTION 6: Accidental release measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedure

Breathing protection required. Ensure suitable air extract/ventilation during cleaning/emptying of process machinery.

6.2. Environmental precautions

This product is regulated by CERCLA ('Superfund').

6.3. Methods and materials for containment and cleaning up

For small amounts: sweep/shovel up. For large amounts: sweep/shovel up. Spills should be contained and placed in suitable containers for disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Breathing must be protected when large quantities are decanted without local exhaust ventilation. Processing machines must be fitted with local exhaust ventilation. Avoid dust formation.

7.2. Conditions for safe storage, including any incompatibilities

Storage	: Segregate from nitrites and alkaline substances. Do not store with: Sodium Nitrate, Sodium Nitrite. Keep container tightly closed and dry; store in a cool place.
Storage stability	: Protect against moisture. Protect from temperatures above 86°F Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

SECTION 8: Exposure controls/personal protection

Eye/Face protection	: Safety goggles with side-shields. Tightly fitting safety goggles (chemical goggles).
Skin protection	: Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.
Hygiene measures	: Eye wash fountains and safety showers must be easily accessible. Wear protective clothing as necessary to prevent contact. Avoid inhalation of dust. Employees should shower at the end of the shift. Wash soiled clothing immediately.
Respiratory protection	: Wear a NIOSH-certified (or equivalent) particulate respirator.
Hand protection	: Chemical resistant protective gloves.
Appropriate Engineering Controls	: Provide local exhaust ventilation to control dust.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Powder, crystalline
Color	: White
Odor	: Ammonia-like
pH	: 9
Evaporation rate	: N/A
Melting point/range	: N/A
Boiling point	: N/A
Flash point	: N/A
Auto-ignition temperature	: N/A
Vapor pressure	: 69 mbar (20°C) 188 mbar (30°C)
Relative density	: 1.6 (20°C)
Bulk density	: 780-830 kg/m ³
Auto-ignition	: The substance/product decomposes, therefore not determined
Water solubility	: 320 g/l (20°C)
Self-ignition temperature	: Not self-igniting
Thermal decomposition	: >59 °C To avoid thermal decomposition, do not overheat

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No corrosive effect on metal

10.2. Chemical stability

The product is chemically unstable

10.3. Possibility of hazardous reactions

The product is chemically unstable

10.4. Conditions to avoid

Avoid extreme heat

10.5. Incompatible materials

Strong alkalines, nitrites

10.6. Hazardous decomposition products

Carbon dioxide and ammonia

Thermal decomposition : >59°C To avoid thermal decomposition, do not overheat.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Route of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

Acute toxicity	
Assessment of acute toxicity	Of moderate toxicity after single ingestion
LD50 - Oral	>1,800 - <2,150 mg/kg (BASF-Test) Species: rat
LD50 – Dermal	>2,000 mg/kg Species: rat No mortality was observed

Skin corrosion/irritation	: Not irritating to the skin.
Serious eye damage/irritation	: Causes irritation. May cause severe damage to the eyes.
Respiratory or skin sensitization	: Non-irritant
Carcinogenicity	: The whole of the information assessable provides no indication of a carcinogenic effect. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.
Reproductive toxicity	: Study scientifically not justified
Specific target organ toxicity (repeated exposure)	: Overexposure may cause; vomiting, shortness of breath, nausea, coughing

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water	: Acutely harmful for aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations. The product has not been tested. The statement has been derived from the properties of the individual components.
Toxicity to Fish	: LC50 (96 h) 61 mg/l, Oncorhynchus mykiss (Flow through.) Literature data.
Aquatic invertebrates	: EC50 (48 h) 63.7 mg/l, Daphnia magna (OECD Guideline 202, part 1, static) Nominal concentration.
Aquatic plants	: EC50 (72h) 75.9 mg/l (biomass), Desmodium subspicatus (DIN 38412 Part9, static)

12.2. Microrganisms/Effect on Activated Sludge

Toxicity to microorganisms	: OECD Guideline 209 Aquatic Activated Sludge, domestic, non-adapted/EC20 (0.5 h): 1,000 mg/l
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12.3. Persistence and degradability

Assessment biodegradation and elimination (h2O)	: Inorganic product which cannot be eliminated from water by biological purification processes. Can be oxidized to nitrate, or can be reduced to nitrogen, by microorganisms.
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12.4. Bioaccumulative Potential

Accumulation in organisms is not to be expected.

12.5. Mobility in Soil

Absorption to solid soil phase is not expected.

12.6. Other Ecological Advice

Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of in accordance with national, state and local regulations. Do not discharge into waterways or sewer systems without proper authorization. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers. Dispose of in a licensed facility.

SECTION 14: Transport information

USDOT: Not classified as a dangerous good under transport regulations.

IMDG: Not classified as a dangerous good under transport regulations.

IATA/ICAO: Not classified as a dangerous good under transport regulations.

FURTHER INFORMATION: Specific national features of transport regulations must be observed. They are to be found in the shipping documents.

SECTION 15 : Regulatory information

Federal Regulations

Registration Status:

Chemical	TSCA, US	Released / Listed
Food	TSCA, US	Released / Exempt

EPCRA 311/312 (Hazard Categories): Acute;

CERCLA RQ	CAS#	Chemical Name
5000Lbs	1066-33-7	Ammonium Hydrogencarbonate;
	1111-78-0	Ammonium Carbamate

Reportable Quantity of Release: 5,000 lb

State Regulations

State RTK	CAS#	Chemical Name
MA, NJ, PA	1066-33-7	Ammonium Hydrogencarbonate
MA, NJ, PA	1111-78-0	Ammonium Carbamate

NFPA Hazard Codes:

Health: 2 Fire: 0 Reactivity: 0 Special:

HMIS III Rating:

Health: 2 Flammability: 0 Physical Hazard: 0

Assessment of the Hazard Classes According to UN GHS Criteria (Most Recent Version):

Eye Dam./Irrit. 2A Serious eye damage/eye irritation

SECTION 16: Other information

Other information

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