

Product Name	Ammonium acetate
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Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identification:

Product Description: Ammonium acetate

Synonyms: Ammonium acetate

CAS-No: 631-61-8

EC-No.: 211-162-9

Molecular Formula: C₂H₇NO₂

REACH Registration No: Not available

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

Recommended Use: Laboratory chemicals, Manufacture of substances, Used as pharma excipient.

1.3. Details of the supplier of the safety data sheet:

- **Company** **Finar Limited**
184-186/P, Chacharwadi Vasna,
Sarkhej-Bavla Highway,
Ta.: Sanand, Dist.: Ahmedabad-382110, Gujarat, India.
Web: www.finarchemicals.com
- **E-Mail Address** safety.finar@actylis.com; info.finar@actylis.com

1.4. Emergency Telephone Number:

- For Emergency contact on: +91 - 2717 - 616 717

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SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture:

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2. Label Elements:

Not a hazardous substance or mixture.

2.3. Other Hazards:

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances: Ammonium acetate

3.2. Mixtures:

Component	CAS-No	EC-No.	Weight %
Ammonium acetate	631-61-8	211-162-9	>95

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures:

- **If inhaled**

Move to fresh air. Get medical attention immediately if symptoms occur.

- **If Ingestion**

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

- **If Contact with skin**

Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately, if symptoms occur.

- **In case of eye contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Get medical attention.

4.2. Most important symptoms and effects, both acute and delayed:

agitation, Nausea, Headache, Convulsions, muscular symptoms, Tremors

The following applies to ammonium salts in general: after swallowing: local irritation symptoms, nausea, vomiting, diarrhoea. Systemic effect: after the uptake of very large quantities: drop in blood pressure,

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collapse, CNS disorders, spasms, narcotic conditions, respiratory paralysis, haemolysis.

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

No data available

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media:

Suitable Extinguishing Media- Water, Foam, Carbon dioxide (CO₂), Dry powder

Unsuitable Extinguishing Media- For this substance/mixture no limitations of extinguishing agents are given.

5.2. Special hazards arising from the substance or mixture:

Combustible

Development of hazardous combustion gases or vapours possible in the event of fire.

Fire may cause evolution of: nitrogen oxides

5.3. Advice for firefighters:

Special protective equipment for firefighters

In the event of fire, wear self-contained breathing apparatus.

5.4 Further Information:

Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures:

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

Should not be released into the environment.

6.2. Environmental precautions:

Do not let product enter drains.

6.3. Methods and material for containment and cleaning up:

Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.

6.4. Reference to other sections:

For disposal see Sections 13.

SECTION 7: HANDLING AND STORAGE

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7.1. Precautions for safe handling:

Wear personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. Avoid dust formation.

7.2. Conditions for safe storage, including any incompatibilities:

Keep containers tightly closed in a dry and well-ventilated place.

7.3. Specific end use(s):

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control parameters:**

Components with workplace control parameters

8.2. Exposure Controls:

- **Appropriate Engineering Controls:**

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

Personal Protective Equipment:

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Eye & Face Protection:

Safety goggles

Hand Protection:

Full contact:

Glove material: Nitrile Rubber

Glove Thickness: 0.11 mm

Break Through Time: >480 min

Splash contact:

Glove material: Nitrile Rubber

Glove Thickness: 0.11 mm

Break Through Time: >480 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and

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the related standard EN374, for example KCL 741 Dermatril® L (full contact), KCL 741 Dermatril® L (splash contact).

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types.

This recommendation applies only to the product stated in the safety data sheet<(,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Respiratory Protection:

required when dusts are generated.

Recommended Filter type: Filter P 1 (acc. to DIN 3181) for solid particles of inert substances

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Environmental Exposure Controls:

Do not let product enter drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties:

- **Appearance:** White
- **Physical State:** Solid
- **Odor:** Ammonia-like
- **pH:** 6.7- 7.3
- **Melting Point:** 114 °C
- **Ignition Temperature:** No data available
- **Decomposition Temperature:** 90 °C
- **Vapor Pressure:** < 0.001 hPa
- **Relative Density:** 1.07 g/cm³

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- **Density:** No data available
- **Volatility:** No data available
- **Bulk Density:** No data available
- **Odor Threshold:** ca.410 kg/m³
- **Viscosity, dynamic:** No data available
- **Water/Oil Dist. Co eff.:** No data available
- **Partition coefficient: n-octanol/water:** log Pow: -2,799
- **Ionicity (in Water):** No data available
- **Boiling Point/Range:** No data available
- **Flash Point:** 136 °C
- **Specific Gravity:** No data available
- **Water Solubility:** 1.480 g/l at 4 °C

9.2. Other information:

Molecular Formula: C₂H₇NO₂

Molecular Weight: 77.08 g/mol

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity:

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

10.2. Chemical stability:

The product is chemically stable under standard ambient conditions (room temperature).

10.3. Possibility of hazardous reactions:

Risk of explosion with: sodium hypochlorite, gold compounds

Violent reactions possible with: Strong acids, strong alkalis, Strong oxidizing agents

10.4. Conditions to avoid:

Incompatible products. Excess heat. Avoid dust formation. Exposure to moisture.

10.5. Incompatible materials:

Strong oxidizing agents, Strong acids, Strong bases, sodium hypochlorite

10.6. Hazardous decomposition products:

Nitrogen oxides (NO_x), Ammonia.

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SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

Acute Oral toxicity

No information Available

Acute Inhalation Toxicity

No information Available

Acute Dermal toxicity

No information Available

Skin corrosion/irritation

No information Available

Serious eye damage/eye irritation

Rabbit

Result: No eye irritation

OECD Test Guideline 405

Sensitisation

No information Available

Germ cell mutagenicity

No information Available

Carcinogenicity

No information Available

Reproductive toxicity

No information Available

Specific target organ toxicity - single exposure

No information Available

Specific target organ toxicity - repeated exposure

No information Available

Aspiration hazard

No information Available

11.2 Further Information:

After uptake of large quantities:

muscular symptoms, agitation, Convulsions, Headache, Tremors, Nausea, psychoses

The following applies to ammonium salts in general: after swallowing: local irritation symptoms, nausea, vomiting, diarrhoea. Systemic effect: after the uptake of very large quantities: drop in blood pressure, collapse, CNS disorders, spasms, narcotic conditions, respiratory paralysis, haemolysis. However, when the product is handled appropriately, hazardous effects are unlikely to occur.

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Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity:

Toxicity to fish

LC50 *Gambusia affinis* (Mosquito fish): 238 mg/l; 96 h (Lit.)

12.2 Persistence and degradability:

Biodegradability

Readily biodegradable

12.3 Bioaccumulate potential:

Partition Coefficient: - n-Octanol/water

log Pow: -2.79 (calculated)

(Lit.) Bioaccumulation is not expected.

12.4 Mobility in soil:

No information Available

12.5 Results of PBT and vPvB assessment:

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

12.6 Other adverse effects:

Additional ecological information

Discharge into the environment must be avoided.

SECTION 13: Disposal considerations

13.1 Waste treatment methods:

Waste material must be disposed of in accordance with the national and local regulations.

Leave chemicals in original containers. No mixing with other waste.

Handle uncleaned containers like the product itself.

SECTION 14: Transport information

	Land transport (ADR/RID)	Air transport (IATA)	Sea transport (IMDG)
14.1 UN number	Not classified as dangerous in the meaning of transport regulations.		
14.2 Proper shipping name	Not classified as dangerous in the meaning of transport regulations.		
14.3 Class	Not classified as dangerous in the meaning of transport regulations.		

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14.4 Packing group	Not classified as dangerous in the meaning of transport regulations.
14.5 Environmentally hazardous	Not classified as dangerous in the meaning of transport regulations.
14.6 Special precautions for user	Not classified as dangerous in the meaning of transport regulations.
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:	Not relevant

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

National legislation

Storage class 10 - 13

15.2 Chemical safety assessment:

For this product a chemical safety assessment was not carried out.

SECTION 16: Other information

Training advice

Provide adequate information, instruction and training for operators.

References: Not available

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