SAFETY DATA SHEET
Ammonium Acetate

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product information

Commercial Product Name
Ammonium Acetate
Registration number
01-2119828440-45

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

Use of the Substance/Mixture
Pharmaceuticals
Surface treatment of metals.
Manufacturing of plastics. Catalyst.
Recommended restrictions on use
Reserved for industrial and professional use.

1.3 Details of the supplier of the safety data sheet

Niacet b.v.
P.O. Box 60
4000 AB Tiel
NETHERLANDS
Telephone +31 344-615224, Telefax. +31 344-611475
Tiel@Niacet.nl

Niacet Corporation
400 47th Street
Niagara Falls, NY
14304 U.S.A.
Telephone +1 716-285-1474 Telefax +1 716-285-1497
niacetcsr@niacet.com

1.4 Emergency telephone number

For Niacet b.v. Tiel, The Netherlands products: +31 344-615224
For Niacet Corporation, Niagara Falls, U.S.A. products:
Chemtrec +1 (800) 424 9300, +1 (703) 527 3887

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EU) 1272/2008 (CLP)
The product is not classified as dangerous according to Regulation (EC) No. 1272/2008.

Classification according to EU Directives 67/548/EEC or 1999/45/EC
Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

2.2 Label elements

Further information:
The product does not need to be labeled in accordance with EC directives.
2.3 Other hazards

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>EINECS-No. / ELINCS No.</th>
<th>Concentration [%]</th>
</tr>
</thead>
<tbody>
<tr>
<td>ammonium acetate</td>
<td>631-61-8</td>
<td>211-162-9</td>
<td>&lt;= 100</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

4.1 Description of first aid measures

Skin contact
  Rinse with water.

Eye contact
  Rinse with plenty of water. If symptoms persist, call a physician.

Ingestion
  Rinse mouth with water. Obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

4.3 Indication of immediate medical attention and special treatment needed, if necessary

Treatment : No information available.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : None.

5.4 Specific methods

In the event of fire, wear self-contained breathing apparatus.
6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. For personal protection see section 8.

6.2 Environmental precautions
Try to prevent the material from entering drains or water courses.

6.3 Methods and materials for containment and cleaning up
Take up mechanically and collect into suitable containers for disposal. After cleaning must be rinsed with plenty of water.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Keep container closed when not in use. Avoid contact with skin, eyes and clothing.

7.2 Conditions for safe storage, including any incompatibilities
Store in closed original packing, dry and at room temperature. Do not stack pallets.

Materials for packaging
Suitable material: original container

Materials to avoid:
No information available.

Storage stability:
Other data Stable at normal ambient temperature and pressure.

7.3 Specific end uses
For industrial use only.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure Limit Values
Contains no substances with occupational exposure limit values.

8.2 Exposure controls

8.2.1 Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice.
Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing

8.2.2 Individual protection measures, such as personal protective equipment
Hand protection
Glove material: PVC
Glove material: Rubber gloves

Eye protection
Tightly fitting safety goggles.

Skin and body protection
Work clothing.
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Respiratory protection
Respiratory protection is not required under normal handling conditions. In case of insufficient ventilation in a closed area wear suitable respiratory equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties
General Information (appearance, odour)
Physical state solid, crystalline
Colour white
Odour ammoniacal

Important health safety and environmental information
pH  6.7 - 7.3 (5 %) (as aqueous solution)
Melting point/range 114 °C
Flash point 136 °C (open cup)
Explosive properties:
Density 1.170 kg/m³
Solubility(ies):
Water solubility 1.480 kg/m³ (4 °C)
Thermal decomposition 90 °C

9.2 Other data

10. STABILITY AND REACTIVITY

10.1 Reactivity
No dangerous reaction known under conditions of normal use.

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Hazardous reactions : None known.

10.4 Conditions to avoid
Conditions to avoid : Stable under normal conditions. The product is very hygroscopic.
10.5 Incompatible materials
Materials to avoid: No information available.

10.6 Hazardous decomposition products
Hazardous decomposition products:
- acetic acid
- ammonia

Thermal decomposition: 90 °C

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects
Acute toxicity
no data available

Remarks: no data available

Irritation and corrosion
Skin:
Not classified as irritating for skin.

Eyes:
Not classified as irritating for eyes.

Sensitisation
no data available

Long term toxicity
Other information
no data available

Human experience
Skin contact
Repeated or prolonged exposure,
May cause mild irritation.
12. ECOLOGICAL INFORMATION

12.1 Toxicity
Toxicity to daphnia and other aquatic invertebrates: Remarks: no data available

12.2 Persistence and degradability
Biological degradability:

Readily biodegradable

12.3 Bioaccumulative potential
Bioaccumulation is unlikely.

12.4 Mobility in soil
Mobility

Water solubility: 1.480 kg/m³ (4 °C)
Water soluble. Stays in water phase. Non-volatile

12.5 Results of PBT and vPvB assessment
This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).

12.6 Other adverse effects
None known.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
Product Dispose of in compliance with local and national regulations.

14. TRANSPORT INFORMATION

14.1 UN number
Land transport

Not classified as dangerous in the meaning of transport regulations.

Sea transport

Not classified as dangerous in the meaning of transport regulations.
Air transport

Not classified as dangerous in the meaning of transport regulations.

14.6 Special precautions for user

None known.

15. REGULATORY INFORMATION

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

Other regulations  The product is classified and labeled in accordance with EC directives or respective national laws.

15.2 Chemical Safety Assessment
A Chemical Safety Assessment is not required for this substance.

16. OTHER INFORMATION

Training advice
Read the safety data sheet before using the product.

Further information
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Sources of key data used to compile the Safety Data Sheet
Regulations, databases, literature, own tests.

Additions, Deletions, Revisions
Relevant changes have been marked with vertical lines.