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SAFETY DATA SHEET

Ammonium Acetate Solution (1 M)

1. Product Identification

1.1. Product Identifiers

- 1.1.1. Name:
Ammonium Acetate Solution (1 M)
- 1.1.2. Part Number:
2202
- 1.1.3. CAS Number:
631-61-8

1.2. Relevant Identified Uses and Uses Advised Against

- 1.2.1. Identified Uses:
Laboratory chemical

1.3. Details of Supplier of Safety Data Sheet

- 1.3.1. Company:
ARTMS Inc
8575 Commerce Court
Burnaby, BC, V5A 4N5
Canada
- 1.3.2. Phone Number:
+1 (604) 228 4016

1.4. Emergency Contact Phone Number

- 1.4.1. Emergency Phone Number:
1-888-CANUTEC (226-8832) (North American use) and/or 1-613-996-6666 (International use)

2. Hazard Identification

2.1. Classification of Substance/Mixture

Not a hazardous substance or mixture.

2.2. GHS Label Elements, Including Primary Statements

Not a hazardous substance or mixture.

2.3. Hazards Not Otherwise Classified (HNOC) or covered by GHS

None

3. Composition/Information on Ingredients

3.1. Substances/Mixtures

3.1.1. Formula: $C_2H_7NO_2$

3.1.2. Molecular Weight: 77.08 g/mol

Substance	Composition (%)	CAS Number	EC Number	Classification
Water	92.8 %	7732-18-5	231-791-2	N/A
Ammonium Acetate	7.2 %	631-61-8	211-162-9	N/A

4. First Aid Measures

4.1. Description of First Aid Measures

4.1.1. General advice:

Practice good industrial hygiene and safety practice.

4.1.2. If inhaled:

Move to fresh air.

4.1.3. In case of skin contact:

Take off immediately all contaminated clothing. Rinse skin with water/ shower.

4.1.4. In case of eye contact:

Rinse out with plenty of water. Remove contact lenses.

4.1.5. If swallowed:

Drink water (two glasses at most). Consult doctor if feeling unwell.

4.2. Most Important Symptoms and Effects (Both Acute and Delayed)

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

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

No data available.

5. Fire Fighting Measures

5.1. Extinguishing Media


5.1.1. Suitable extinguishing media

Water Foam Carbon dioxide (CO₂) Dry powder.

5.2. Special Hazards Arising from the Substance/Mixture

Carbon oxides, Nitrogen oxides (NO_x)

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


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5.3. Advice for Firefighters

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

5.4. Further Information

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

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6. Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Avoid inhalation. Evacuate the danger area, observe emergency procedures, consult an expert.
For personal protection see section 8.

6.2. Environmental Precautions

Do not let product enter drains.

6.3. Methods and Materials for Containment and Cleaning

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal. Clean up affected area. Avoid generation of dusts.

6.4. Reference to Data Sheet Sections

For disposal see section 13.

7. Handling and Storage

7.1. Precautions for Safe Handling

For precautions see section 2.2.


7.2. Conditions for Safe Storage, Including Any Incompatibilities

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

Storage class (TRGS 510): 12: Non-Combustible Liquid

7.3. Specific End Use(s)

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

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8. Exposure Controls/Personal Protection

8.1. Control Parameters

8.2. Exposure Controls

8.2.1. Appropriate engineering controls:

Change contaminated clothing. Wash hands after working with substance. Practice good industrial hygiene and safety practice.

8.2.2. Personal Protective Equipment:

8.2.2.1. Eye/face protection:

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

8.2.2.2. Skin protection:

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

8.2.2.3. Body protection:

Suit protecting against chemicals, the type of protective equipment must be selected according to the concentration.

8.2.2.4. Respiratory protection:

Required when dusts are generated.

8.2.2.5. Control of environmental exposure:

Do not let product enter drains.


9. Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

Property	Data/Value
Appearance	Colorless; Liquid
Odor	No data available
Odor Threshold	No data available
pH	No data available
Melting/Freezing Point	No data available
Initial Boiling Point and Range	Decomposes below the boiling point.
Flash Point	No data available
Evaporation Rate	No data available
Flammability	No data available
Upper/Lower Flammability/Explosive Limits	No data available
Vapor Pressure	No data available
Vapor Density	No data available
Density	1.073 g/cm ³ at 25 °C (77 °F)
Water Solubility	Soluble
Partition Coefficient: n-octanol/water	No data available
Auto-Ignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	No data available
Explosive Properties	No data available
Oxidizing Properties	No data available

9.2. Other Safety Information

No data available

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10. Stability and Reactivity

10.1. Reactivity

On heating: release of toxic/corrosive/combustible gases/vapors (ammonia).

10.2. Chemical Stability

The product is chemically stable under standard ambient conditions.

10.3. Possibility of Hazardous Reactions

No data available.

10.4. Conditions to Avoid

No data available.

10.5. Incompatible Materials

Strong oxidizing agents, Strong acids, Strong bases, Sodium hypochlorite.

10.6. Hazardous Decomposition Properties

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NO_x)

Other decomposition products - No data available

In the event of fire: see section 5

11. Toxicology

11.1. Information on Toxicological Effects


11.1.1. Acute toxicity:

No data available.

11.1.2. Skin corrosion/irritation: (Ammonium Acetate Solid)

Skin - Rabbit

Result: No skin irritation - 4 h

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11.1.3. Serious eye damage/eye irritation: (Ammonium Acetate Solid)

Eyes - Rabbit

Result: No eye irritation - 24 h

(OECD Test Guideline 405)

11.1.4. Respiratory or skin sensitization:

No data available.

11.1.5. Germ cell mutagenicity:

No data available.

11.1.6. Carcinogenicity: (Ammonium Acetate Solid)

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.

11.1.7. Reproductive toxicity:

No data available.

11.1.8. Specific target organ toxicity – single exposure:

No data available.

11.1.9. Specific target organ toxicity – repeated exposure:

No data available.

11.1.10. Aspiration hazard:

No data available.

11.1.11. Additional information: (Ammonium Acetate Solid)

RTECS: AF3675000

Gastrointestinal disturbance

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. 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, diarrhea. Systemic effect: after the uptake of very large quantities: drop in blood pressure, collapse, CNS disorders, spasms, narcotic conditions, respiratory paralysis, haemolysis.

Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately. Handle in accordance with good industrial hygiene and safety practice.


12. Ecological Information

12.1. Toxicity (Ammonium Acetate Solid)

Toxicity to daphnia and other aquatic invertebrates static test - Daphnia magna (Water flea) - > 919 mg/l - 48 h

(OECD Test Guideline 202)

Toxicity to algae EC50 - Skeletonema costatum - > 1,000 mg/l - 72 h

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(ISO 10253)

12.2. Persistence and Degradability

No data available

12.3. Bio-accumulative Potential

Unlikley

12.4. Mobility in Soil

No data 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

Discharge into the environment must be avoided.

13. Disposal Considerations

13.1. Waste Treatment Methods

13.1.1. Product:

Waste material must be disposed of in accordance with the national and local regulations. Do not mix with other waste. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

13.1.2. Contaminated Packaging:

Dispose of as unused product.

14. Transport Information

14.1. DOT (US)

Not classified as a dangerous good.

14.2. IMDG

Not classified as a dangerous good.

14.3. IATA

Not classified as a dangerous good.


15. Regulatory Information

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

16. Other Information

16.1. Further Information

No further data available.

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Disclaimer:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product regarding appropriate safety precautions. It does not represent any guarantee of the properties of the product. ARTMS Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.

END OF SDS