

Safety Data Sheet

Section 1. Product and Company Identification

Product Identification: 1% NH_4NO_3 in Water
SDS Number: MM-9041
Company Identification: High-Purity Standards
P.O. Box 41727
Charleston, SC 29423
Telephone: (843) 767-7900
FAX: (843) 767-7906

In case of emergency call INFOTRAC: 800-535-5053

Section 2. Hazard Identification

Classification:

None

Labeling:

Symbol: None

Signal Word: None

Hazard Statement: None

Precautionary Statement: None

Section 3. Composition

Component	CAS/EINECS Registry #	Percent Concentration
Ammonium Nitrate (NH_4NO_3)	6484-52-2/229-347-8	1
Water, deionized	7732-18-5/231-791-2	Balance

Section 4. First Aid Measures

Emergency Overview: May cause irritation. Wash areas of contact with water.

Skin/eye Contact: May cause slight irritation. Remove contaminated shoes and clothing. Flush contaminated area with plenty of water for at least 15 minutes. Call a physician if irritation develops.

Inhalation: Not likely to be hazardous by inhalation.

Ingestion: May cause irritation to stomach if ingested in large quantities. Rinse mouth with water. Dilute with water or milk.

Section 5. Fire Fighting Measures

Fire & Explosion hazards: Not considered to be a fire or explosion hazard.

Extinguishing Media: Use any means suitable for extinguishing surrounding fire.

Specific Methods: Firefighters should wear proper protective equipment and breathing apparatus for surrounding fire.

Section 6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Dilute with water and mop up or absorb spills with absorbent (vermiculite, sand, fuller's earth) and place in plastic bags for later disposal. Always dispose of in accordance with local regulations.

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Section 7. Handling and Storage

Store in a cool, dry, ventilated storage area. Keep away from incompatible materials. Keep container tightly sealed. Refer to Section 8 for personal handling instructions.

Section 8. Exposure Controls and Personal Protection

Engineering Controls: Provide exhaust ventilation or other engineering controls to keep any buildup of airborne contaminants below their respective threshold limit value. Ensure the availability of eyewash stations and safety showers.

Personal Protection: Wear proper gloves, safety glasses with side shields, lab coat/apron.

Exposure Limits:

Component	ACGIH TLV	OSHA PEL
Ammonium Nitrate	Not Available	Not Available

Section 9. Physical and Chemical Properties

Physical State: Liquid

Appearance: Clear, colorless liquid

Odor: Odorless to a faint pungent odor

Odor threshold: None

pH: 5-8

Melting point: N/A

Freezing Point: N/A

Boiling Point: Approximately 100°C

Flash point: N/A

Evaporation rate: N/A

Flammability: N/A

Explosion limits: N/A

Vapor Pressure (mm): N/A

Vapor Density (air+1): N/A

Relative density: (H₂O = 1): Approximately 1.0

Solubility in H₂O: Complete

Auto ignition temperature: N/A

Decomposition temperature: N/A

Molecular Weight: 80.04

Section 10. Stability and Reactivity

Stability Indicator: YES

Conditions to Avoid: Incompatibles.

Incompatibles: Reacts with acids to emit toxic fumes of nitrogen dioxide.

Hazardous Decomposition Products: Oxides of nitrogen.

Hazardous Polymerization: Will not occur.

Section 11. Toxicological Information

NH₄NO₃-RTECS# BR9050000

Toxicity Data:

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LD₅₀ Oral, Rat: (NH₄NO₃) 2217 mg/kg.

Section 12. Ecological Information

Ecotoxicological information: When released into water, this material is expected to readily biodegrade. No information found on its environmental toxicity.

Section 13. Disposal Considerations

General: Follow federal, state and local regulations.

Section 14. Transport Information

D.O.T. Classification: Not hazardous by DOT regulations.

Section 15. Regulations (Not meant to be all inclusive-selected regulation listed)

TSCA Status: The components of this solution are listed on the TSCA Inventory.

RCRA Status: No

SARA: No

Safety Phrases: S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

WHMIS Information (Canada): Not controlled at this concentration.

Section 16. Other Information

HPS products are intended for laboratory use only. All products should be handled and used by trained professional personnel only. The responsibility for the safe handling and use of these products rests solely with the buyer and/or user. The MSDS was prepared carefully and represents the best data currently available to us; however, HPS does not certify the data on the MSDS. Certified values for this material are given only on the Certificate of Analysis.

Theodore C. Rains, Ph.D.