

# MATERIAL SAFETY DATA SHEET

## Similar to OSHA Form 174

### Section I – Manufacturer/Distributor Information

Manufacturer/Distributor Name: W. D. Service Co., Inc.  
Address: 780 Creek Road, Bellmawr, NJ 08031  
Emergency Telephone Number: 800-424-9300  
Chemical Name and Synonyms: Ammonium Hydroxide  
Trade Name and Synonyms: Ammonia  
Chemical Family: Amine  
Formula: NH<sub>4</sub>OH  
HMIS Hazard Code: Health: 2, Flammability: 0, Reactivity: 0, Other: 0

### Section II – Hazardous Ingredients

TLV/PEL  
Aqua Ammonia (CAS#1336-21-6) 50 ppm  
**12.40° Baume 4.0% by weight of ammonia gas dissolved in water**

### Section III – Physical Data

Boiling Point (F); approx. 212 Specific Gravity: .973  
Vapor Pressure: = Water Volatiles by Weight: 100  
Vapor Density: = to Water Evaporation Rate: = to H<sub>2</sub>O  
Solubility in Water: Complete pH: 12.1  
Appearance and Odor: Clear, thin colorless liquid, ammonia odor

### Section IV – Fire and Explosion Data

Flash Point: None to Boiling (TOC) Flammable Limits: Not Est.  
Extinguishing Media: None. Unusual Fire and Explosion Hazards: Heated material will liberate irritating, toxic and corrosive fumes. Wear self contained breathing apparatus. None: Not Est. = Not Established, Prop. = Proprietary Date Prepared: 11/12/02

### Section V – Health Hazard Data

Threshold Limit Value: 50 ppm. Effects of Over Exposure: May be harmful or fatal if swallowed. May cause eye and respiratory irritation. Emergency and first Aid Procedures: For Eyes: Flush with water for at least 15 minutes. If irritation persists, get medical aid. For Skin: Remove contaminated clothing and thoroughly wash affected area. If irritation persists, seek medical aid. If ingested: Give milk, egg white, gelatin, or if none of these are available, water. Do not induce vomiting. Get medical aid, Inhalation: Remove to fresh air. If irritation or difficulty breathing is present, get medical aid. Listed carcinogen, mutagen, teratogen, (ingredient, source, amount): none.

### Section VI – Reactivity Data

Stability: Reactive. Conditions to Avoid: Avoid prolonged contact with aluminum and other non-ferrous metals. None  
Incompatibility: Avoid contact with all acids and oxidizers. Hazardous Decomposition Products: Varies with contacted Material. May liberate explosive hydrogen gas in contact with non-ferrous metals. Hazardous Polymerization: Will not occur.  
Conditions to Avoid: None

### Section VII – Spill or Leak Procedures

Steps to Be Taken In Case Material is Spilled or Released: For larger spills: Ventilate area or use ANSI approved Respirators. Recontainerize by Mopping, Wet Vacuum, or Suitable Absorbent. Rinse Remaining Material to Drains. Waste Disposal Method: Follow Local, State, and Federal Regulations.

### Section VIII – Special Protection Information

Ventilation: Mechanical, (30 CFM Minimum). Eye Protection: Goggles. Protective gloves: Rubber or latex. Other protective equipment: Use rubber boots if working in a standing solution.

### Section IX – Special Precautions

Precautions To Be Taken In Handling and Storage: Store below 100 degrees F.  
Other Precautions: Keep Out of Reach of Children. For sale to, use and storage by service personnel only.  
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