

MATERIAL SAFETY DATA SHEET

Ammonia Solution, 3% (v/v)

SECTION I - IDENTIFICATION

MANUFACTURER'S NAME: Hawkins Chemical, Inc.
3100 East Hennepin Avenue
Minneapolis, MN 55413

PHONE NUMBER: (612) 331-6910

EMERGENCY PHONE NUMBER: (612) 331-6910

EFFECTIVE DATE: 10/28/94

TRADE NAME: Ammonium Hydroxide 3%

CHEMICAL FAMILY: Ammonium Hydroxide

CHEMICAL FORMULA: None: Mixture

SECTION II - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS	TLV	% wt (Approx)
Ammonium Hydroxide, CAS#1336-21-6*	none listed	2-4%
Ammonia, CAS#7664-41-7*	25 ppm	1-2%

* Toxic Chemical subject to reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR §372.

SECTION III - PHYSICAL DATA

Freezing Point (°C): Spec. Grav. (H₂O)=1): 0.9940

Vapor Pressure (mm Hg): n/a % Volatile. by Volume:

Vapor Density (air=1): >1 Evap. Rate (n-buAc=1): n/a

Solubility in Water: Complete pH: n/a - basic solution

Appearance and Odor: Clear liquid, with ammonia odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (°F, method used): n/a

Flammable Limits: (LEL) N/A (UEL) N/A

Extinguishing Media: Water fog

Special Fire fighting Procedures: None

Unusual Fire Hazards: Releases ammonia when heated. Oxidation of ammonia can cause formation of NO_x. Wear self-contained breathing apparatus.

SECTION V - HEALTH HAZARD DATA

OVEREXPOSURE EFFECTS: Prolonged exposure may result in irritation of skin. May be harmful or fatal if swallowed. Inhalation of mist may cause respiratory irritation.

FIRST AID PROCEDURES: For eye contact, flush with cool water for a least 15 minutes. Call a physician. For skin contact, flush away with water. If ingested, do NOT induce vomiting. Call a physician immediately. If inhaled, remove affected person to fresh air.

NFPA Codes: Health 2; Flam. 1; React 0; Other:

SECTION VI - REACTIVITY DATA

Stability: Stable at room temperature

Incompatibility: Avoid extreme heat, acids and halogenated compounds.

Hazardous Decomposition Products: May emit ammonia and/or NO_x when heated to decomposition or burned.

Polymerization: Will not occur

Prepared/Reviewed on November 16, 1995 by C.W.Gibson
N/A = Not applicable

SECTION VII - SPILL OR LEAK PROCEDURE

FOR SPILL OR LEAK: Wear protective equipment to avoid prolonged contact. Wash residues with water.

WASTE DISPOSAL METHOD: Consult with Federal, State, or local authorities for approved methods of disposal.

SECTION VIII - SPECIAL PROTECTION

Respiratory Protection: No recommendation

Eye Protection: Splash-proof goggles recommended

Protective Clothing: PVC or rubber gloves recommended

Ventilation: Local or mechanical exhaust recommended.

Other: Access to shower or eye wash station recommended

SECTION IX - SPECIAL PRECAUTIONS

Precautions to be taken in handling and storing: Keep from freezing. Store at temperatures between 35°-120°F. Store in dry, cool, well-ventilated area. Keep container closed when not in use.

Other Precautions: Wash hands and garments thoroughly after use. Keep out of the reach of children. Wear protective equipment when handling.

Please be advised that it is your responsibility to inform your employees of the hazards of this substance, to advise them of what these properties mean and be sure they understand exposure information.

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