

MATERIAL SAFETY DATA SHEET

1 OF 2

Section I: IDENTIFICATION

Product Name: Ammonium Hydroxide 28%

Date Prepared: 02/06/06

Item Number: 400441

Emergency Phone Infotrac: 800-535-5053

Section II: INGREDIENTS

<i>Component(s):</i>	<i>CAS#</i>	<i>OHSA PEL, ACGIH TLV/STEL</i>	<i>NFPA</i>	
Ammonium Hydroxide 28% (Corrosive Liquid)	1336-21-6	50, 25/35 ppm	<i>Health</i>	3
			<i>Flammability</i>	1
			<i>Reactivity</i>	0

Section III: PHYSICAL DATA

<i>Boiling Point:</i>	~83°F	<i>Specific Gravity (H₂O = 1):</i>	0.9
<i>Vapor Pressure mm Hg/27 °C:</i>	720	<i>Percent Volatile by Vol:</i>	NA
<i>Vapor Density (Air 1:1):</i>	1.2	<i>Evaporation Rate (ether = 1):</i>	NA
<i>Solubility in H₂O:</i>	Complete	<i>Appearance & Odor:</i>	Clear liquid/ pungent odor

Section IV: FIRE/EXPLOSION HAZARD

Flash Point: NA *Flammable Limits:* LEL, NA UEL, NA
Extinguishing Media: Water spray
Special Fire Fighting Procedures: Wear protective clothing with NIOSH approved breathing apparatus. Products of combustion may be harmful in a fire situation. Do not use direct water stream.
Unusual Fire & Explosion Hazards: May emit toxic fumes. Closed container may explode in heat of fire.

Section V: REACTIVITY

Stability: Stable *Material to Avoid:* Strong acids, bleaches, halogens
Hazardous Decomposition or Byproducts: Ammonia fumes
Hazardous Polymerization: Does not occur *Conditions to Avoid:* Excessive heat

Section VI: HEALTH HAZARDS

NOTE: Product is corrosive. *Target Organs:* eyes, skin, respiratory and gastrointestinal tracts.

Routes of Entry: Inhalation, Skin and Ingestion
Acute/Chronic: Vapors will cause eyes, skin and respiratory irritation and burning. Will cause burning to eyes, skin and intestinal tract, gastrointestinal disturbances, convulsions, circulatory problems, and respiratory system.
Carcinogenicity: Not classified as a human carcinogen.
Signs/Symptoms of Exposure: Burning eyes, skin/tissue destruction and respiratory irritation.

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3611 St. Johns Bluff Road South, Suite 1, Jacksonville, FL 32224
904-996-7758

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NH₄OH, 2 OF 2

Section VI: HEALTH HAZARDS

Emergency First Aid:

Skin: Remove contaminated clothing. Wash affected area with soap and water.

Eyes: Thoroughly flush eyes with water. Contact a physician if irritation persist.

Ingestion: Rinse mouth with water, provided person is conscious and contact a physician.

Inhalation: Remove person to fresh air. If not breathing, give artificial respiration and contact physician.

Section VII: SAFE HANDLING

Chemical Release or Spill: Wear protective gear and isolate the spill area with sand, or other absorbent material. Place all contaminated material in a closed container for disposal. Minimize spill with water

Waste Disposal Method: All liquid and or contaminated material should be disposed of in DOT approved waste containers. Comply with all Federal, State and Local regulations for disposal.

Precautions for Handling and Storing: Use normal precautions for corrosive liquids. Avoid excessive heat.

Section VIII: CONTROL MEASURES

Respiratory Protection: Required if used in a non-ventilated area

Ventilation: Local/mechanical exhaust

Protective Gloves: Chemical resistant **Eye Protection:** Safety glasses

Other Protective Clothing or Equipment: Normal laboratory apparel suggested by Good Laboratory Practices

Work/Hygienic Practices: Wash thoroughly with soap and water after handling.

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. Astraldiagnosics shall not be held liable for any damage resulting from handling or contact with this product.

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