

## Safety Data Sheet (SDS)

### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Ammonium Hydroxide 1.1 M - 14.8 M

Signal Word  
**DANGER**

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261

Chemtrec Emergency Phone Number: (800) 424-9402

Pictograms

### SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Acute toxicity, oral (Category 4). Harmful if swallowed (H302). Do not eat, drink or smoke when using this product (P270).



Hazard class: Skin corrosion or irritation (Category 1). Causes severe skin burns and eye damage (H314). Do not breathe mist, vapors or spray (P260).



### SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Ammonium hydroxide	1336-21-6	NH <sub>4</sub> OH	35.05	5 - 70%
Water	7732-18-5	H <sub>2</sub> O	18.00	30-95%
Synonyms: Aqua ammonium; Ammonia solution				

### SECTION 4 — FIRST AID MEASURES

Call a POISON CENTER or physician if you feel unwell (P312).

**If inhaled:** Remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P340).

**If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing Immediately call a POISON CENTER or physician (P305+P351+P338+P310).

**If on skin or hair:** Immediately remove all contaminated clothing. Rinse skin with water (P303+P361+P353).

**If swallowed:** Rinse mouth. Do NOT induce vomiting (P301+P330+P331).

### SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable, noncombustible solution.

NFPA Code

In case of fire: Use a tri-class dry chemical fire extinguisher.

None established

### SECTION 6 — ACCIDENTAL RELEASE MEASURES

Ventilate area. Contain the spill with sand or absorbent material and deposit in a sealed bag or container. See Sections 8 and 13 for further information.

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## **SECTION 7 — HANDLING AND STORAGE**

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Flinn Suggested Chemical Storage Pattern: Inorganic #4. Store in a dedicated base cabinet. If a cabinet is not available, store in a Flinn Saf-Cube™. Keep container tightly closed (P233).

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## **SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION**

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Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264). Use only in a hood or well-ventilated area (P271).

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## **SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

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Solution of ammonia in water. Strong ammonia odor.	Boiling point: 25 °C
	Melting point: -91.5 °C
	Odor threshold: 5-50 ppm as ammonia
	pH: basic
	Specific gravity: 0.897

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## **SECTION 10 — STABILITY AND REACTIVITY**

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Avoid contact with acids, copper, galvanized iron, and aluminum.

Shelf life: Indefinite, if stored properly.

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## **SECTION 11 — TOXICOLOGICAL INFORMATION**

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Acute effects: Toxic, corrosive to skin, eyes, and respiratory tract, lachrymator	ORL-RAT LD <sub>50</sub> : 350 mg/kg as ammonia water
Chronic effects: N.A.	IHL-HUMAN TLC <sub>0</sub> : 408 ppm as ammonia water
Target organs: N.A.	SKN-RBT LD <sub>50</sub> : N.A.

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## **SECTION 12 — ECOLOGICAL INFORMATION**

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Data not yet available.

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## **SECTION 13 — DISPOSAL CONSIDERATIONS**

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Please review all federal, state and local regulations that may apply before proceeding.

Flinn Suggested Disposal Method #10 is one option.

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## **SECTION 14 — TRANSPORT INFORMATION**

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Shipping name: Ammonia Solutions. Hazard class: 8, Corrosive. UN number: UN2672

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## **SECTION 15 — REGULATORY INFORMATION**

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TSCA-listed, EINECS-listed (215-647-6), RCRA code D002.

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## **SECTION 16 — OTHER INFORMATION**

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N.A. = Not available, not all health aspects of this substance have been fully investigated.

N/A = Not applicable

**Consult your copy of the Flinn Science Catalog/Reference Manual for additional information about laboratory chemicals.**

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