

## Ammonia Safety Data Sheet (SDS)

### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### Ammonia

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261  
Chemtrec Emergency Phone Number: (800) 424-9388

Signal Word  
**WARNING**

### SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Acute toxicity, inhalation (Category 5). May be harmful if inhaled (H333).

Hazard class: Skin corrosion or irritation (Category 3). Causes mild skin irritation (H316).

Hazard class: Serious eye damage or irritation (Category 2B). Causes eye irritation (H320).

Pictograms



### SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Ammonium hydroxide Water	1336-21-6 7732-18-5	NH <sub>4</sub> OH H <sub>2</sub> O	35.05 18.00	<10%> 90% or more
Synonyms: Household ammonia; Ammonia solution				

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### SECTION 4 — FIRST AID MEASURES

Call 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. Call a POISON CENTER or physician if you feel unwell (P304+P312). **If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing (P305+P351+P338). **If eye irritation persists eyes:** Get medical advice or attention (P337+P313). **If skin irritation occurs:** Get medical advice or attention (P332+P313).

**If swallowed:** Rinse mouth. Call a POISON CENTER or physician if you feel unwell.

### SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable, noncombustible solution.

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

NFPA Code  
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.

### SECTION 7 — HANDLING AND STORAGE

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™.

### SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection. Wash hands thoroughly after handling (P264).

Exposure guidelines: (as gas) PEL 50 ppm (OSHA) TLV 25 ppm Ceiling 35 ppm (ACGIH)

### SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Clear, cloudy white or colored liquid. Pungent odor.

Specific gravity: 0.98-0.99

### SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with acids, copper, copper alloys, galvanized iron, aluminum, and chlorine containing compounds.

Shelf life: Indefinite, if stored properly.

### SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Skin, eye, and respiratory tract irritant, nausea, vomiting, olfactory fatigue, pulmonary edema.

Chronic effects: N.A.

Target organs: Skin, eyes, and respiratory tract.

ORL-RAT LD<sub>50</sub>: 350 mg/kg as ammonium hydroxide

IHL-RAT LC<sub>50</sub>: 2000 ppm/4H (as a gas)

SKN-RBT LD<sub>50</sub>: N.A.

### SECTION 12 — ECOLOGICAL INFORMATION

Acutely toxic to aquatic species.

### SECTION 13 — DISPOSAL CONSIDERATIONS

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

Flinn Suggested Disposal Method #26b is one option.

### SECTION 14 — TRANSPORT INFORMATION

Shipping name: Not regulated. Hazard class: N/A. UN number: N/A.

### SECTION 15 — REGULATORY INFORMATION

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

### 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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