

# Safety Data Sheet

## Ammonia Water, 0.3% Aqueous

### Section 1 - Chemical Product and Company Identification

**SDS Name:** Ammonia Water, 0.3% Aqueous

**Catalog Numbers:** SO-285, A-109-5, A-142-4, E-312-5, F-396-14, H-504-5, L-752-3A, L-753-3A, L-754-4A

**Company Identification:** Transene Company, Inc., DBA ROWLEY BIOCHEMICAL, Inc.  
10 ELECTRONICS AVENUE  
DANVERS, MA 01923

**For information, call:** 978-739-4883

**Emergency Number:** 800-424-9300

**For CHEMTREC assistance, call:** 800-424-9300

### Section 2 - Hazards Identification

#### GHS Classifications

H316-Skin corrosion/irritation: 3

H319-Serious eye damage/eye irritation: 2A

H335-Specific target organ toxicity, single exposure; Respiratory tract irritation: 3

#### Pictograms or Hazard symbols and Hazard statement(s):



Signal Word: Warning

#### Hazard Statements:

H316-Causes mild skin irritation

H319-Causes serious eye irritation

H335-May cause respiratory irritation

#### Precautionary Statements:

P261-Avoid breathing dust/fume/gas/mist/vapours/spray.

P264-Wash thoroughly after handling.

P271-Use only outdoors or in a well-ventilated area.  
P280-Wear eye protection/face protection.  
P304+P340-If inhaled: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338-If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P312-Call a Poison Center/doctor if you feel unwell.  
P332+P313-If skin irritation occurs: Get medical advice/attention.  
P337+P313-If eye irritation persists: Get medical advice/attention.  
P403+P233-Store in a well-ventilated place. Keep container tightly closed.  
P405-Store locked up.  
P501-Dispose of contents/container in accordance with local/regional/national/international regulations.

### Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent
1336-21-6	Ammonium Hydroxide (28-30%)	0.3 v/v
7732-18-5	Water	Balance

### Section 4 - First Aid Measures

**Eye Exposure:** IMMEDIATE ACTION IS ESSENTIAL FOR EYE EXPOSURES. In case of contact with eyes, immediately flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Remove contact lenses, if present. Get immediate medical advice.

**Dermal Exposure:** In case of skin contact, immediately flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention.

**Oral Exposure:** If swallowed, get immediate medical advice. Drink water. Do NOT induce vomiting.

**Inhalation Exposure:** If inhaled, remove to fresh air. If breathing becomes difficult, give oxygen, and immediately call a physician.

### Section 5 - Fire Fighting Measures

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating gases may be generated by thermal decomposition or combustion.

**Extinguishing Media:** Use dry chemical, carbon dioxide, dry sand, water spray, or alcohol-resistant foam.

**Hazardous Combustion Products:** Nitrogen oxides, ammonia, irritating and toxic fumes and gases.

**Flash Point:** Not available

**Autoignition Temperature:** Not available

**Explosion Limits, Lower:** Not available

**Upper:** Not available

**NFPA Rating:** (estimated) Health: 1; Flammability: 0; Instability: 0

## Section 6 - Accidental Release Measures

### **Procedure(s) of Personal Precaution(s):**

Wear personal protective equipment. Do not ingest or inhale. Do not get on skin or clothing. Do not get in eyes. Ensure adequate ventilation.

**Methods for Cleaning up:** Contain and recover liquid when possible. Residue from spills may be diluted with water and neutralized. Absorb neutralized residue with sand, earth, or vermiculite. Carefully sweep up and containerize for proper disposal. Do not release to the environment. Do not release into drains.

## Section 7 - Handling and Storage

Use care when handling. Wear personal protective equipment. Wash thoroughly after handling. Use only under a chemical fume hood. Do not get in eyes, on skin, or clothing. Do not ingest. Do not breathe vapors or mist. Keep in a tightly closed and non-metal container. Store in a cool, dry, and well-ventilated area. Protect from direct sunlight. Keep away from incompatible materials.

## Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:** Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

### **Personal Protective Equipment**

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

**Exposure Limits:**

Chemical Name	ACGIH - TLV	NIOSH - IDLH	OSHA - Final PELs
Ammonium Hydroxide (28-30%) CAS#1336-21-6	25 ppm TWA 35 ppm STEL	25 ppm TWA 18 mg/m <sup>3</sup> TWA 35 ppm STEL 27 mg/m <sup>3</sup> STEL	For ammonia CAS#7664-41-7: 50 ppm TWA; 35 mg/m <sup>3</sup> TWA

**OSHA Vacated PELs:** Ammonia: 35 ppm STEL; 27 mg/m<sup>3</sup> STEL

Section 9 - Physical and Chemical Properties
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**Physical State:** Liquid

**Appearance:** Clear, colorless

**Odor:** Ammonia-like

**Vapor Pressure:** Not available

**Odor Threshold:** Not available

**Vapor Density:** Not available

**pH:** 10.90-11.30

**Relative Density:** Not available

**Melting point/freezing point:** Not available

**Solubility:** Soluble in water

**Boiling Point:** Not available

**Flash Point:** Not available

**Evaporation Rate:** Not available

**Flammability (solid, gas):** Not applicable

**Partition coefficient: n-octanol/water:** Not available

**Autoignition Temperature:** Not available

**Decomposition Temperature:** Not available

**Viscosity:** Not available

**Specific Gravity/Density:** Not available

Section 10 - Stability and Reactivity
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**Chemical Stability:** Stable under ordinary conditions of use and storage. Heat and sunlight can contribute to instability.

**Conditions to Avoid:** Incompatible materials, ignition sources, and excess heat. Avoid direct sunlight.

**Incompatibilities with Other Materials:** Strong oxidizing agents, acids, acrolein, dimethyl sulfate, halogens, silver nitrate, propylene oxide, nitromethane, silver oxide, silver permanganate, oleum, beta-propiolactone, metals, aluminum, lead, nickel, silver, zinc, copper, metal alloys, and fluorine.

**Hazardous Decomposition Products:** Nitrogen oxides, ammonia, irritating and toxic fumes and gases.

## Section 11 - Toxicological Information

### **CAS#1336-21-6 Ammonium Hydroxide (28-30%): RTECS#: BQ9625000**

LD50 Oral: >350 mg/kg (rat)

LD50 Dermal: Not available

LC50 Inhalation: Not available

**Carcinogenicity:** Ammonium Hydroxide (28-30%) CAS#1336-21-6 is not listed by IARC, NTP, ACGIH, OSHA, or California Prop. 65.

**Information on the likely routes of exposure:** Routes of entry anticipated: oral, dermal, inhalation, and eye.

**Epidemiology:** Not available.

**Teratogenicity:** Not available.

**Reproductive Effects:** Not available.

**Developmental Effects:** Not available.

**Neurotoxicity:** Not available.

**Mutagenicity:** Not available.

**Specific Target Organ Toxicity, Single Exposure:** Respiratory system.

**Specific Target Organ Toxicity, Repeated Exposure:** Not available.

**Symptoms associated with exposure:** May cause skin burns and eye damage. May cause respiratory irritation. Ingestion may cause gastric pain, swelling, bloody vomiting, coughing, severe burns of mouth/throat, and perforation of esophagus/stomach. Inhalation may cause mucosal irritations, cough, shortness of breath, bronchitis, and respiratory tract damage. Eye contact may cause severe pain, eye damage, and risk of blindness. Skin contact may cause irritations and burns.

**The toxicological properties of this material have not been thoroughly investigated.**

## Section 12 - Ecological Information

**Ecotoxicity:** Do not release to the environment. Do not release to drains. Toxic to aquatic life. May cause long-term adverse effects to the environment.

### **CAS#1336-21-6 Ammonium Hydroxide (28-30%):**

LC50, freshwater fish: 0.53 mg/L 96h

LC50, freshwater fish: 8.2 mg/L 96h

EC50, water flea: 0.66 mg/L 48h

**Persistence and degradability:** Not available.

**Bio-accumulative potential:** Not available.

**Mobility:** Will likely be mobile in the environment due to its water solubility.

### Section 13 - Disposal Considerations

**DISPOSAL:** Dispose of in accordance with all federal, state, and local regulations.

### Section 14 – Transport Information

**DOT**

Non-Regulated

### Section 15 - Regulatory Information

#### **Canada Regulatory Information**

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the SDS contains all the information required by the CPR.

### Section 16 - Additional Information

**SDS Creation Date:** 10/15/12

**Revision #1:** 2-10-14 YM

**Revision #2:** 6-29-15

**Revision #3:** 7-25-19

**Revision #4:** 10-31-22

**Revision #5:** 2-26-25

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