

## SAFETY DATA SHEET

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifiers

Product name	Ammonium Hydroxide 1M Solution
CAS number	See section 3
Synonyms	No additional information

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Laboratory Chemicals
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#### 1.3 Details of the supplier of the safety data sheet

Company	Lab Alley, LLC 12501 Pauls Valley Road Austin, Texas 78737 U.S.A.
Telephone	512-668-9918
Fax	512-886-4008

#### 1.4 Emergency telephone

Emergency Phone #	US & Canada: 1-800-535-5053	INFOTRAC
	International 1-352-323-3500	INFOTRAC

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin Irrit. 2 H315 Causes skin irritation.  
Eye Irrit. 2A H319 Causes serious eye irritation.

#### 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word

Warning

Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary statements

P264 Wash thoroughly after handling.

P280 Wear protective gloves and eye protection.

P302+P352 If on skin: Wash with plenty of water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P337+P313 If eye irritation persists: Get medical advice/attention.

### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

There are no other hazards not otherwise classified that have been identified.

## SECTION 3: Composition/information on ingredients

### 3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Water	-	7732-18-5	98.11%
Ammonia	-	1336-21-6	1.89%

## SECTION 4: First aid measures

### 4.1 Description of first-aid measures

General advice

No special measures required.

If inhaled

Supply fresh air; consult doctor in case of complaints.

In case of skin contact

Immediately rinse with water. If skin irritation continues, consult a doctor.

In case of eye contact

Remove contact lenses if worn. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

If swallowed

Rinse out mouth and then drink plenty of water. Do not induce vomiting; immediately call for medical help.

### 4.2 Most important symptoms and effects, both acute and delayed

Irritant to skin and mucous membranes. Gastric or intestinal disorders when ingested.

#### 4.3 Indication of any immediate medical attention and special treatment needed

If medical advice is needed, have product container or label at hand.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

**Suitable extinguishing media** Use fire fighting measures that suit the environment.

**Unsuitable extinguishing media** No relevant information available.

#### 5.2 Specific hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

#### 5.3 Special protective equipment and precautions for firefighters

Wear self-contained respiratory protective device. Wear fully protective suit.

#### 5.4 Further information

**Flash Point** The product is not flammable.

**Autoignition Temperature** Not determined.

##### Explosion limits

**Upper** Not determined.

**Lower** Not determined.

**Sensitivity to Mechanical Impact** Not determined.

**Sensitivity to Static Discharge** Not determined.

##### NFPA

Health	Flammability	Instability	Physical hazards
0	0	0	N/A

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away. For large spills, use respiratory protective device against the effects of fumes/dust/aerosol. Ensure adequate ventilation.

#### 6.2 Environmental precautions

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage s

#### 6.3 Methods and materials for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Send for recovery or disposal in suitable receptacles.

## **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## **SECTION 7: Handling and storage**

### **7.1 Precautions for safe handling**

Prevent formation of aerosols.

Avoid splashes or spray in enclosed areas.

Use only in well ventilated areas.

#### **Hygiene measures**

The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

### **7.2 Conditions for safe storage, including any incompatibilities**

#### **Storage conditions**

Keep containers tightly sealed. Store in cool, dry conditions in well sealed receptacles. Store away from foodstuffs. Do not store together with acids.

#### **Incompatibilities**

Alkalis.

## **SECTION 8: Exposure controls/personal protection**

### **8.1 Occupational exposure limits**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

### **8.2 Exposure controls**

#### **Appropriate engineering controls**

Provide adequate ventilation.

#### **Personal protective equipment**

##### **Eye/face protection**

Wear safety glasses. Follow relevant national guidelines concerning the use of protective eyewear.

##### **Skin protection**

Wear protective gloves. Materials for the gloves include: Nitrile rubber, Neoprene gloves, Butyl rubber, Natural rubber, and sensitization by the components in the glove materials is possible.

**Body Protection**

Protective work clothing.

**Respiratory protection**

Not required under normal conditions of use. Use suitable respiratory protective device when high concentrations are present.

**Control of environmental exposure**

No relevant information available.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

Physical State	Liquid
Appearance	Colorless
Odor	Strong
Odor Threshold	Not determined
pH	>10 @ 20 °C (68 °F)
Melting Point/Range	Not determined.
Boiling Point/Range	100 °C (212 °F)
Evaporation Rate	Not determined.
Flammability (solid)	Not applicable.
Flammability or explosive limit	Not determined.
Upper	Not determined.
Lower	Not determined.
Vapor Pressure	23 hPa (17.3 mm Hg) @ 20 °C (68 °F)
Vapor Density	Not determined.
Density	1 g/cm <sup>3</sup> (8.35 lbs/gal)
Solubility	Fully soluble in water
Partition coefficient; n-octanol/water	Not determined.
Autoignition Temp	Not determined.
Decomposition Temp	Not determined.
Viscosity	Not determined.
Molecular Formula	Not determined.
Molecular Weight	Not determined.
VOC Content(%)	Not determined.
Oxidizing properties	Not determined.

**9.2 Other safety information**

No information available.

**SECTION 10: Stability and reactivity****10.1 Reactivity**

No relevant information available.

## **10.2 Chemical stability**

Stable under normal temperatures and pressures.

## **10.3 Possibility of hazardous reactions**

Exothermic reaction with acids. Toxic fumes may be released if heated above the decomposition point. Reacts with strong oxidizing agents. Reacts with certain metals.

## **10.4 Conditions to avoid**

Excessive heat.

## **10.5 Incompatible materials**

Alkalis.

## **10.6 Hazardous decomposition products**

Under fire conditions only:

Nitrogen oxides

Ammonia

# **SECTION 11: Toxicological information**

## **11.1 Information on toxicological effects**

### **Product Information, Component Information**

#### **Acute toxicity**

Based on available data, the classification criteria are not met.

#### **Skin corrosion/irritation**

Irritant to skin and mucous membranes.

#### **Serious eye damage/eye irritation**

Causes eye irritation.

#### **Respiratory or skin sensitization**

Based on available data, the classification criteria are not met.

#### **Germ cell mutagenicity**

Based on available data, the classification criteria are not met.

#### **Carcinogenicity**

Based on available data, the classification criteria are not met.

#### **Specific target organ toxicity - single exposure**

Based on available data, the classification criteria are not met.

#### **Specific target organ toxicity - repeated exposure**

Based on available data, the classification criteria are not met.

**Reproductive toxicity**

Based on available data, the classification criteria are not met.

**Chronic effects**

Based on available data, the classification criteria are not met.

**11.2 Additional Information**

No additional information.

**SECTION 12: Ecological information****12.1 Toxicity**

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**12.2 Persistence and degradability**

No relevant information available.

**12.3 Bio accumulative potential**

No relevant information available.

**12.4 Mobility in soil**

No relevant information available.

**12.5 Results of PBT and vPvB assessment**

No relevant information available.

**12.6 Endocrine disrupting properties**

No relevant information available.

**12.7 Other adverse effects**

No relevant information available.

**SECTION 13: Disposal considerations****13.1 Waste Disposal Methods**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

**SECTION 14: Transport information****DOT (US)**

UN Number

Not regulated

Proper Shipping name	Not regulated
Hazard Class	None
Packaging Group	Not regulated
Technical name	Ammonium Hydroxide 1M Solution

#### **IMDG**

UN Number	Not regulated
Proper Shipping name	Not regulated
Hazard Class	None
Packaging Group	Not regulated
Technical name	Ammonium Hydroxide 1M Solution

#### **IATA**

UN Number	Not regulated
Proper Shipping name	Not regulated
Hazard Class	None
Packaging Group	Not regulated
Technical name	Ammonium Hydroxide 1M Solution

### **SECTION 15: Regulatory information**

#### **US federal regulations**

##### **TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

All ingredients are listed or exempt.

##### **CERCLA Hazardous Substance List (40 CFR 302.4)**

Ammonium Hydroxide= 1,000 lb RQ

##### **SARA 304 Emergency release notification**

None of the ingredients are listed.

##### **OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)**

Not listed.

#### **Superfund Amendments and Reauthorization Act of 1986 (SARA)**

##### **SARA 302 Extremely hazardous substance**

None of the ingredients are listed.

##### **SARA 311/312 Hazardous**

None of the ingredients are listed.

##### **SARA 313 (TRI reporting)**

1336-21-6: Ammonia, aqueous solution

#### **Other federal regulations**



**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not listed.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not listed.

**Safe Drinking Water Act**

Ammonium Hydroxide= 1,000,000 lb RQ

**FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

Not listed.

**US state regulations**

**US. Massachusetts RTK - Substance List**

Not listed.

**US. New Jersey Worker and Community Right-to-Know Act**

Not listed.

**US. Pennsylvania Worker and Community Right-to-Know Law**

Not listed.

**California Proposition 65**

Not listed.

**SECTION 16: Other information**

Date of Issue: 5/23/2025

**SECTION 17: Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.