

## SAFETY DATA SHEET

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

#### 1.1 Product identifiers

Product name	Ammonium Hydroxide 2M 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)

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

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

Pictogram



Signal Word

Danger

Hazard statements

H290 May be corrosive to metals.  
H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.  
H335 May cause respiratory irritation.

Precautionary statements

P234 Keep only in original container.  
P260 Do not breathe mist/vapors/spray.  
P264 Wash thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/protective clothing/eye protection.  
P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.  
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
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.  
P310 Immediately call a poison center/doctor.  
P363 Wash contaminated clothing before reuse.  
P390 Absorb spillage to prevent material damage.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.  
P406 Store in corrosive resistant container with a resistant inner liner.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

### 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	87%
Ammonia, Aqueous Solution	-	1336-21-6	13%

## SECTION 4: First aid measures

### 4.1 Description of first-aid measures

General advice

<b>If inhaled</b>	Supply fresh air. If experiencing respiratory symptoms: Call a doctor. Provide oxygen treatment if affected person has difficulty breathing.
<b>In case of skin contact</b>	Immediately rinse with water. If skin irritation continues, consult a doctor. Seek immediate help for blistering or open wounds.
<b>In case of eye contact</b>	Protect unharmed eye. Remove contact lenses if worn. Rinse opened eye for several minutes under running water. Seek immediate medical advice.
<b>If swallowed</b>	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

Coughing. Strong caustic effect on skin and mucous membranes. May cause respiratory irritation.

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

Medical supervision for at least 48 hours. If necessary oxygen respiration treatment. If medical advice is needed, have product container or label at hand.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

**Suitable extinguishing media** The product is not flammable. 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

Heating may produce toxic and corrosive fumes.

#### 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** Not applicable.

**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
3	1	0	N/A

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation.

**6.2 Environmental precautions**

Do not allow to enter sewers/ surface or ground water. Inform respective authorities in case of seepage into water course or sewage system.

**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. Avoid contact with the eyes and skin. Avoid breathing mist, vapors, or spray.

**Hygiene measures**

The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Avoid breathing mist, vapors, or spray.

**7.2 Conditions for safe storage, including any incompatibilities****Storage conditions**

Store only in the original receptacle. Store in a well-ventilated place. Keep cool.

**Incompatibilities**

Metals. Acids.

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

**Skin protection**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. These include:

Butyl rubber, PVC gloves Neoprene gloves, Nitrile rubber, Fluorocarbon rubber (Viton).

**Body Protection**

Protective work clothing.

**Respiratory protection**

Suitable respiratory protective device recommended.

**Control of environmental exposure**

Handle in accordance with good industrial hygiene and safety practice.

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

Physical State	Liquid
Appearance	Clear, Colorless
Odor	Ammonia-like
Odor Threshold	Not determined
pH	Not determined
Melting Point/Range	Not determined
Boiling Point/Range	Not determined
Evaporation Rate	Not determined
Flammability (solid)	Not determined
Flammability or explosive limit	
Upper	Not determined
Lower	Not determined
Vapor Pressure	Not determined
Vapor Density	Not determined
Relative Density	<1
Solubility	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	Non-oxidizing

## 9.2 Other safety information

No information available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Reacts with heavy metals. Exothermic reaction with acids.

### 10.2 Chemical stability

Stable under normal temperatures and pressures.

### 10.3 Possibility of hazardous reactions

Reacts with heavy metals. Exothermic reaction with acids.

### 10.4 Conditions to avoid

Excessive heat.

### 10.5 Incompatible materials

Metals. Acids.

### 10.6 Hazardous decomposition products

Ammonia, Nitrogen oxides (NOx).

## 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

Strong caustic effect on skin and mucous membranes.

#### Serious eye damage/eye irritation

Strong caustic effect.

#### 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**

May cause respiratory irritation.

**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**

No relevant information available.

**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**

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	UN2672
Proper Shipping name	Ammonia solution
Hazard Class	8
Packaging Group	III

### IMDG

UN Number	UN2672
Proper Shipping name	AMMONIA SOLUTION
Hazard Class	8
Packaging Group	III

### IATA

UN Number	UN2672
Proper Shipping name	Ammonia solution
Hazard Class	8
Packaging Group	III

## 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.