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### Ammonium Hydroxide, 1% v/v

#### **SECTION 1: Identification**

#### **Product identifier**

Product name: Ammonium Hydroxide, 1% v/v

**Product code: AH1015SS** 

## Recommended use of the product and restriction on use

Relevant identified uses: Laboratory Chemicals

**Uses advised against:** Not determined or not applicable.

**Reasons why uses advised against:** Not determined or not applicable.

## Manufacturer or supplier details

Manufacturer: **United States** 

AquaPhoenix Scientific, Inc. 860 Gitts Run Road Hanover, PA 17331 1-717-632-1291

# **Emergency telephone number:**

Canada

ChemTel: (24-hour) +1(800)255-3924

+1(813)248-0585 (International)

### **SECTION 2: Hazard identification**

GHS classification: Not a hazardous substance or mixture

**Label elements** 

Hazard pictograms: None

Signal word: None

Hazard statements: None

Precautionary statements: None

Hazards not otherwise classified: None

#### **SECTION 3: Composition/information on ingredients**

Identification	Name	Weight %
CAS number: 7732-18-5	Water	<100
CAS number: 1336-21-6	Ammonium Hydroxide	<25

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Additional Information: None

## **SECTION 4: First-aid measures**

#### **Description of first-aid measures**

#### **General notes:**

Not determined or not available.

#### After inhalation:

Loosen clothing as necessary and position individual in a comfortable position

Maintain an unobstructed airway

Get medical advice/attention if you feel unwell

#### After skin contact:

Wash affected area with soap and water

Seek medical attention if symptoms develop or persist

### After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes

Remove contact lens(es) if able to do so during rinsing

Seek medical attention if irritation persists or if concerned

### After ingestion:

Rinse mouth and then drink plenty of water

Do not induce vomiting

Get medical advice/attention if you feel unwell

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

#### Acute symptoms and effects:

Not determined or not available.

#### **Delayed symptoms and effects:**

Not determined or not available.

## Immediate medical attention and special treatment

#### **Specific treatment:**

Not determined or not available.

#### Notes for the doctor:

Not determined or not available.

#### **SECTION 5: Fire-fighting measures**

#### **Extinguishing media**

#### Suitable extinguishing media:

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition

#### **Unsuitable extinguishing media:**

Not determined or not applicable.

## Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors

## Special protective equipment for firefighters:

Wear protective eye wear, gloves and clothing Refer to Section 8

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Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

#### Special precautions:

Heating causes a rise in pressure, risk of bursting and combustion

Shut off sources of ignition

Carbon monoxide and carbon dioxide may form upon combustion

#### **SECTION 6: Accidental release measures**

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

Ensure adequate ventilation

Ensure air handling systems are operational

Wear protective eye wear, gloves and clothing

### **Environmental precautions:**

Should not be released into the environment

Prevent from reaching drains, sewer or waterway

## Methods and material for containment and cleaning up:

Absorb with non-combustible liquid-binding material (sand, diatomaceous earth (clay), acid binders, universal binders)

Dispose of contents / container in accordance with local regulations

#### Reference to other sections:

Not determined or not applicable.

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

#### Precautions for safe handling:

Do not eat, drink, smoke or use personal products when handling chemical substances.

Avoid breathing mist or vapor.

Use only with adequate ventilation.

#### Conditions for safe storage, including any incompatibilities:

Store in a cool, well-ventilated area.

Store away from foodstuffs.

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

Only those substances with limit values have been included below.

## **Occupational Exposure limit values:**

Country (Legal Basis)	Substance	Identifier	Permissible concentration
ACGIH	Ammonium Hydroxide	1336-21-6	ACGIH TLV TWA 25 ppm (NH₃)
	Ammonium Hydroxide	1336-21-6	ACGIH TLV STEL 35 ppm (NH₃)
United States (OSHA)	Ammonium Hydroxide	1336-21-6	OSHA PEL TWA 50 ppm (NH₃)
	Ammonium Hydroxide	1336-21-6	OSHA PEL TWA 35 mg/m³ (NH <sub>3</sub> )
NIOSH	Ammonium Hydroxide	1336-21-6	NIOSH REL TWA 25 ppm (NH₃)
	Ammonium Hydroxide	1336-21-6	NIOSH REL TWA 18 mg/m³ (NH₃)
	Ammonium Hydroxide	1336-21-6	NIOSH REL ST 35 ppm (NH₃)
	Ammonium Hydroxide	1336-21-6	NIOSH REL ST 27 mg/m³ (NH₃)

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#### Ammonium Hydroxide, 1% v/v

#### **Biological limit values:**

No biological exposure limits noted for the ingredient(s).

## Information on monitoring procedures:

Not determined or not applicable.

#### Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

# Personal protection equipment

## **Eye and face protection:**

Safety goggles or glasses, or appropriate eye protection.

## Skin and body protection:

Select glove material impermeable and resistant to the substance.

### **Respiratory protection:**

When necessary, use NIOSH-approved breathing equipment.

### General hygienic measures:

Wash hands before breaks and at the end of work.

Avoid contact with skin, eyes and clothing.

Perform routine housekeeping.

Wash contaminated clothing before reusing.

### **SECTION 9: Physical and chemical properties**

## Information on basic physical and chemical properties

Appearance (physical state, color):	Clear, colorless liquid
Odor:	Ammonia odor
Odor threshold:	Not available
pH-value:	10.6-11.6
Melting/Freezing point:	Approx. 0°C
Boiling point/range:	Approx. 100°C
Flash point:	Not available
Evaporation rate:	Not available
Flammability (solid, gaseous):	Not available
Explosion limit upper:	Not available
Explosion limit lower:	Not available
Vapor pressure:	115 at 20°C
Vapor density:	Not available
Density:	Not available
Relative density:	Approx. 0.9-1.0
Solubilities:	Infinite solubility in water.
Partition coefficient (n-octanol/water):	Not available
Auto/Self-ignition temperature:	Not available

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## Ammonium Hydroxide, 1% v/v

Decomposition temperature:	Not available
Dynamic viscosity:	Not available
Kinematic viscosity:	Not available
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

#### Other information

## SECTION 10: Stability and reactivity

#### Reactivity:

Does not react under normal conditions of use and storage.

## **Chemical stability:**

Stable under normal conditions of use and storage.

#### Possibility of hazardous reactions:

None under normal conditions of use and storage.

#### **Conditions to avoid:**

None known.

#### **Incompatible materials:**

None known.

#### **Hazardous decomposition products:**

None known.

## **SECTION 11: Toxicological information**

#### Acute toxicity

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

**Product data:** No data available. **Substance data:** No data available.

### Skin corrosion/irritation

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

Product data: No data available.

Substance data:

Name	Result
Ammonium Hydroxide	Causes severe skin burns and eye damage.

#### Serious eye damage/irritation

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

**Product data:** No data available. **Substance data:** No data available.

# Respiratory or skin sensitization

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

Product data: No data available.

Substance data: No data available.

### Carcinogenicity

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

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#### Ammonium Hydroxide, 1% v/v

Product data: No data available.

Substance data: No data available.

International Agency for Research on Cancer (IARC): None of the ingredients are listed.

**National Toxicology Program (NTP):** None of the ingredients are listed.

#### Germ cell mutagenicity

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

**Product data:** No data available. **Substance data:** No data available.

#### Reproductive toxicity

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

**Product data:** No data available. **Substance data:** No data available.

### Specific target organ toxicity (single exposure)

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

Product data: No data available.

Substance data: No data available.

#### Specific target organ toxicity (repeated exposure)

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

**Product data:** No data available. **Substance data:** No data available.

#### Aspiration toxicity

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

Product data: No data available.

Substance data: No data available.

Information on likely routes of exposure: No data available.

Symptoms related to the physical, chemical and toxicological characteristics: No data available.

Other information: No data available.

# **SECTION 12: Ecological information**

## Acute (short-term) toxicity

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

Product data: No data available.

Substance data:

Name	Result
Ammonium Hydroxide	LC50 - Coho salmon - 0.45 mg/L - 96 h

## Chronic (long-term) toxicity

Product data: No data available.

Substance data: No data available.

#### Persistence and degradability

Product data: No data available.

Substance data: No data available.

#### **Bioaccumulative potential**

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# Ammonium Hydroxide, 1% v/v

**Product data:** No data available. **Substance data:** No data available.

Mobility in soil

Product data: No data available.
Substance data: No data available.
Other adverse effects: No data available.

## **SECTION 13: Disposal considerations**

## **Disposal methods:**

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11)

## **SECTION 14: Transport information**

# **Canadian Transportation of Dangerous Goods (TDG)**

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	
Special precautions for user	None

# **International Maritime Dangerous Goods (IMDG)**

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	
Special precautions for user	None

## International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	
Special precautions for user	None

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Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code		
Bulk Name	None	
Ship type	None	
Pollution category	None	

## **SECTION 15: Regulatory information**

### Canada regulations

### **Domestic substances list (DSL):**

1336-21-6	Ammonium Hydroxide	Listed
7732-18-5	Water	Listed

Non-domestic substances list (NDSL): Not determined.

## **SECTION 16: Other information**

### **Abbreviations and Acronyms: None**

#### **Disclaimer:**

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

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**End of Safety Data Sheet**