

# **SECTION 1: Identification**

## 1.1. Product Identifier

Trade Name or Designation: Molybdenum AA Standard, 1000 ppm Mo in 3% NH4OH

Product Number: AMO1KW Other Identifying Product Numbers: AMO1KW-100, AMO1KW-500

## 1.2. Recommended Use and Restrictions on Use

General Laboratory Reagent

# 1.3. Details of the Supplier of the Safety Data Sheet

Company: Ricca Chemical Company

Address: 448 West Fork Drive Arlington, TX 76012 USA Telephone: 888-467-4222

# 1.4. Emergency Telephone Number (24 hr)

CHEMTREC (USA) 800-424-9300 CHEMTREC (International) 1+ 703-527-3887

# **SECTION 2: Hazard(s) Identification**

## 2.1. Classification of the Substance or Mixture (in accordance with OSHA HCS 29 CFR 1910.1200)

For the full text of the Hazard and Precautionary Statements listed below, see Section 16.

	Hazard		
Hazard Class	Category	Statement	Precautionary Statements
Hazardous to the Aquatic Environment (Acute)	Category 3	H402	P273, P501
Hazardous to the Aquatic Environment (Chronic)	Category 3	H402	P273, P501

## 2.2. GHS Label Elements

**Pictograms:** 

Signal Word:

# **Safety Data Sheet**

#### Hazard Statements:

Hazard Number	Hazard Statement
H402	Harmful to aquatic life.

#### **Precautionary Statements:**

Precautionary Number	Precautionary Statement	
P273	Avoid release to the environment.	
P501	Dispose of contents in accordance with local, state, federal and international regulations.	

# 2.3. WHMIS Classification

WHMIS classification is not included based on the recommended option (Option 4) found in the Canada Gazette Part II, Vol. 149, No.3, page 458

# 2.4. Hazards not Otherwise Classified or Covered by GHS

Data not available.

# **SECTION 3: Composition / Information on Ingredients**

## 3.1. Components of Substance or Mixture

Chemical Name	Formula	Molecular Weight	CAS Number	Weight%
Water	H₂O	18.01 g/mol	7732-18-5	99.05%
Ammonium Hydroxide	NH₄OH	35.04 g/mol	1336-21-6	0.75%
Ammonium Molybdate	(NH₄)₂MoO₄	Data not available.	13106-76-8	0.20%

# **SECTION 4: First-Aid Measures**

#### 4.1. General First Aid Information

Eye Contact: May cause irritation, redness, pain, and tearing.

Inhalation: Not expected to require first aid. If necessary, remove to fresh air.

Skin Contact: May cause slight irritation.

Ingestion: Dilute with water or milk. Do not induce vomiting. Call a physician if necessary.

## 4.2. Most Important Symptoms and Effects, Acute and Delayed

This item is slightly corrosive. Use with adequate ventilation. Avoid contact with skin, eyes or clothing. Wash areas of contact with plenty of water. For eyes, get medical attention. EYE CONTACT: May cause irritation, redness, pain, and tearing. SKIN CONTACT: May cause slight irritation.

## 4.3. Medical Attention or Special Treatment Needed

Not expected to require special treatment.

# **Safety Data Sheet**

# **SECTION 5: Fire-Fighting Measures**

### 5.1. Extinguishing Media

Use any means suitable for extinguishing surrounding fire.

## 5.2. Specific Hazards Arising from the Substance or Mixture

Not considered to be a fire or explosion hazard.

### 5.3. Special Protective Equipment for Firefighters

Use protective clothing and breathing equipment appropriate for the surrounding fire.

## **SECTION 6: Accidental Release Measures**

## 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Wear appropriate PPE for the size and nature of the spill. As a general rule, wear safety glasses and gloves.

#### 6.2. Cleanup and Containment Methods and Materials

Absorb with suitable material (paper towels, etc.) and treat as normal refuse if local regulations allow. Liquid may be flushed to the sewer. Always dispose of in accordance with local, state and federal regulations.

# **SECTION 7: Handling and Storage**

## 7.1. Precautions for Safe Handling and Storage Conditions

As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage.

# **SECTION 8: Exposure Controls / Personal Protection**

#### 8.1. Control Parameters

Chemical Name	Limit Type	Country	Exposure Limit	Information Source
Ammonium Molybdate	TWA	USA	5 mg/m³ TWA (as Mo)	U.S OSHA - Final PELs - Time Weighted
(13106-76-8)				Averages (TWAs)
Ammonium Molybdate	TLV-TWA	USA	0.5 mg/m <sup>3</sup> TWA (respirable fraction	on, as ACGIH - Threshold Limit Values - Time
(13106-76-8)			Mo)	Weighted Averages (TLV-TWA)

## 8.2. Exposure Controls

Engineering Controls: No specific controls are needed. Normal room ventilation is adequate.

Respiratory Protection: Normal room ventilation is adequate.

Skin Protection: Chemical resistant gloves.

Eye Protection: Safety glasses or goggles.

#### 8.3. Personal Protective Equipment

Normal room ventilation is adequate. Chemical resistant gloves. Safety glasses or goggles.

# **Safety Data Sheet**

# **SECTION 9: Physical and Chemical Properties**

# 9.1. Basic Physical and Chemical Properties

Colorless to slightly greenish-yellow liquid	
Liquid	
Data not available.	
Data not available.	
Data not available.	
0.0°C	
100°C - 100°C	
Data not available.	
1.01	
Miscible	
Data not available.	

# **SECTION 10: Stability and Reactivity**

# 10.1. Reactivity and Chemical Stability

Stable under normal conditions of use and storage.

# 10.2. Possibility of Hazardous Reactions

Data not available.

# 10.3. Conditions to Avoid and Incompatible Materials

Strong oxidizers, acids, alkali metals, Calcium Hypochlorite bleaches, gold, mercury, silver, halogens.

# 10.4. Hazardous Decomposition Products

Will not occur.

# **Safety Data Sheet**

# **SECTION 11: Toxicological Information**

# **11.1. Information on Toxicological Effects**

#### Acute Toxicity - Oral Exposure:

Not applicable.

#### Acute Toxicity - Dermal Exposure:

Not applicable.

#### Acute Toxicity - Inhalation Exposure:

Not applicable.

#### Acute Toxicity - Other Information:

LD50, Oral, Rat: (Ammonium Molybdate) no information available from RTECS.

#### Skin Corrosion and Irritation:

Not applicable.

### Serious Eye Damage and Irritation:

Not applicable.

#### Respiratory Sensitization: Not applicable.

Skin Sensitization:

Not applicable.

#### Germ Cell Mutagenicity:

Not applicable.

#### Carcinogenicity:

Not applicable.

#### **Reproductive Toxicity:**

Not applicable.

# Specific Target Organ Toxicity from Single Exposure:

Not applicable.

# Specific Target Organ Toxicity from Repeated Exposure:

Not applicable.

## **Aspiration Hazard:**

Not applicable.

## Additional Toxicology Information:

Data not available.

# **Safety Data Sheet**

# **SECTION 12: Ecological Information**

### 12.1. Ecotoxicity

Harmful to aquatic life. Avoid release to the environment. Dispose of contents in accordance with local, state, federal and international regulations. Harmful to aquatic life. Avoid release to the environment. Dispose of contents in accordance with local, state, federal and international regulations.

### 12.2. Persistence and Degradability

Data not available.

#### 12.3. Bioaccumulative Potential

Data not available.

#### 12.4. Mobility in Soil

Data not available.

#### 12.5. Other Adverse Ecological Effects

Data not available.

# **SECTION 13: Disposal Considerations**

#### 13.1. Waste Treatment Methods

Data not available.

## **SECTION 14: Transportation Information**

# 14.1. Transportation by Land - Department of Transportation (DOT, United States of America)

Not regulated according to DOT Regulations.

# **SECTION 15: Regulatory Information**

- 15.1. Occupational Safety and Health Administration (OSHA) Hazards Not listed.
- 15.2. Superfund Amendments and Reauthorization Act (SARA) 302 Extremely Hazardous Substances Not listed.



- 15.3. Superfund Amendments and Reauthorization Act (SARA) 311/312 Hazardous Chemicals Ammonium Hydroxide (CAS # 1336-21-6): 1000 lb final RQ; 454 kg final RQ
- **15.4. Superfund Amendments and Reauthorization Act (SARA) 313 Toxic Release Inventory (TRI)** Ammonium Molybdate (CAS # 13106-76-8): 1.0 % de minimis concentration (10% of total aqueous Ammonia is reportable under this listing) Ammonium Hydroxide (CAS # 1336-21-6): 1.0 % de minimis concentration (10% of total aqueous Ammonia is reportable under this listing)

#### 15.5. Massachusetts Right-to-Know Substance List

Ammonium Hydroxide (CAS # 1336-21-6): Present

# 15.6. Pennsylvania Right-to-Know Hazardous Substances

Ammonium Hydroxide (CAS # 1336-21-6): Environmental hazard Ammonium Hydroxide (CAS # 1336-21-6): Present Water (CAS # 7732-18-5): Present

## 15.7. New Jersey Worker and Community Right-to-Know Components

Ammonium Molybdate (CAS # 13106-76-8): sn 0105 Ammonium Hydroxide (CAS # 1336-21-6): corrosive Ammonium Hydroxide (CAS # 1336-21-6): sn 0103

## 15.8. California Proposition 65

Not listed.

## 15.9. Canada Domestic Substances List / Non-Domestic Substances List (DSL/NDSL)

Ammonium Molybdate (CAS # 13106-76-8): Present Ammonium Hydroxide (CAS # 1336-21-6): Present Water (CAS # 7732-18-5): Present

## 15.10. United States of America Toxic Substances Control Act (TSCA) List

Ammonium Molybdate (CAS # 13106-76-8): Present Ammonium Hydroxide (CAS # 1336-21-6): Present Water (CAS # 7732-18-5): Present

## 15.11. European Inventory of Existing Commercial Chemical Substances (EINECS),

European List of Notified Chemical Substances (ELINCS), and No Longer Polymers (NLP) Not listed.



# **SECTION 16: Other Information**

# 16.1. Full Text of Hazard Statements and Precautionary Statements

Harmful to aquatic life.

Avoid release to the environment.

Dispose of contents in accordance with local, state, federal and international regulations.

# 16.2. Miscellaneous Hazard Classes

Canadian Carcinogenicity Hazard Class: Not Applicable. Physical Hazards Not Otherwise Classified (PHNOC): Not Applicable. Health Hazards Not Otherwise Classified (HHNOC): Not Applicable. Not Applicable.

# 16.3. National Fire Protection Association (NFPA) Rating

Health: 1 Flammability: 0 Reactivity: 0 Special Hazard:





## 16.4. Document Revision

Last Revision Date: 5/1/2015

# DISCLAIMER

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and RICCA CHEMICAL COMPANY assumes no legal responsibility or liability whatsoever resulting from its use.