# Scientific Laboratory Supplies - Safety Data Sheet

**CHE118**4

(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 1.1 Revision date: 16 April 2021
Date printed: 16 September 2024

## Section 1. Identification

1.1 Product Identifier CHE1184

Product Name AMMONIUM MOLYBDATE 4H2O A.R. 500g.

CAS Number 12054-85-2

REACH Registration No A registration number is not available as the substance or its uses are exempt, the

annual tonnage does not require a registration or the registration is envisaged for a

later date

Molecular Formula (NH, ), Mo, O, .4H, O =1235.86

#### 1.2 Relevent identified uses of the substance or mixure & uses advised against

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

#### **1.3 Supplier** Scientific Laboratory Supplies



Unit 6, Foresters Avenue Fairham Business Park

Fairham Nottingham NG11 2AF

UNITED KINGDOM

Phone 0115 9821111 Fax 0115 9825275

Email sales@scientific-labs.com

**1.4 Emergency Telephone** (08:00-17:00) 0115 9821111

(24hr) 112

(Have this document to hand)

# Section 2. Hazards Identification

### 2.1 Classification of the substance or mixture

#### Classification according to regulation 1272/2008/EC

Skin corrosion/irritation, category 2
H315: Causes skin irritation.
Serious eye damage/irritation, category 2
H319: Causes serious eye irritation.
Spec target organ tox - single, category 3
H335: May cause respiratory irritation.

#### 2.2 Label elements

#### Labelling according to regulation 1272/2008/EC

Signal word Warning

Hazard Pictograms



Hazard Statements Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

Precautionary Statements Avoid breathing dust / fume / gas / mist / vapours / spray. Wash thoroughly after handling. Wear protective

gloves / protective clothing / eye protection / face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. IF ON SKIN: Wash with plenty of soap and water. If eye irritation persists: Get medical advice/attention. If skin irritation occurs: Get medical

advice/attention.

# **Section 3. Composition**

#### 3.1 Substances

Component	CAS No. EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Ammonium molybdate	12054-85-		>98%	Skin Irrit. 2,Eye Irrit. 2,STOT SE 3 (I)
tetrahydrate	2			

## Section 4. First Aid

#### 4.1 Description of first aid measures

Eyes Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. If discomfort persists

OBTAIN MEDICAL ATTENTION.

Skin Wash off skin thoroughly with water.

Inhalation Remove from exposure.

Ingestion Wash out the patients mouth thoroughly with water. In severe cases or if exposure has been great, OBTAIN

MEDICAL ATTENTION.

Personal protection for first Wear protective gloves / eye protection.

aiders

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

No further relevant information available.

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

No further relevant information available.

### **Section 5. Fire Fighting**

#### 5.1 Extinguishing media

Extinguishing Media Consider what other flammable materials are present and act accordingly.

Unsuitable Media Nothing specified.

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

Hazards May evolve toxic fumes if involved in a fire.

#### 5.3 Advice for firefighters

protective clothing and breathing apparatus.

### Section 6. Accidental Release Measures

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

Personal Protection Presents no major hazards.

### **6.2** Environmental precautions

Environmental Motify the Environmental Agency and local Environmental Health Officer if major spillage occurs.

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

Major Spillage Shovel/sweep up into container for removal Wash area down with copious amounts of water.

Minor Spillage Wash area down with copious amounts of water.

Scientific Laboratory Supplies - Safety Data Sheet

Ref: CHE1184

#### 6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

### Section 7. Storage & Handling

#### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breath dust. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains dust concentrations below the recommended limits.

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

Well ventilated, cool, dry storage.

#### 7.3 Specific end use(s)

See section 1.2.

### Section 8. Workplace Exposure & Personal Protection

#### 8.1 Control parameters

Component	CAS No	Concentration	Workplace Exposure Limits				
			Long Term (8hr TWA)		Short Term	Short Term 15min period)	
Ammonium molybdate tetrahydrate	12054-85-2	>98%	-	-	-	-	

Exposure data source(s) No occupational exposure data currently available.

#### 8.2 Exposure controls

Respiratory Protection If process creates significant amounts of dust use L.E.V. or wear suitable dust mask.

Hand Protection Wear gloves.

Skin Protection Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn.

Special Hazards No special precautions required.

# Section 9. Physical & Chemical Properties

#### 9.1 Information on basic physical and chemical properties

White crystalline solid. Appearance Odour No specific odour. Not applicable pН **Boiling Point** Not available Melting Point Not applicable Flash Point Not applicable Upper Flammable Limit Not applicable Lower Flammable Limit Not applicable Auto Ignition Not applicable **Explosive Properties** No. Oxidising Properties No. Not applicable Vapour Pressure Not available Relative Density Water Solubility

# 9.2 Other information

No data available.

# Section 10. Stability & Reactivity

**10.1** Reactivity No data available.

**10.2** Chemical Stability Stable under normal conditions

**10.3** Possibility of hazardous No data available.

reactions

Alkalis.

**10.4** Conditions to Avoid No specific conditions.

10.6 Hazardous Decomposition Decomposes to emit ammonia and toxic and irritant fumes of sulphur dioxide.

Products

10.5 Incompatable Materials

# Section 11. Toxicological Information

#### 11.1 Information on toxicological effects

Eyes Causes serious eye irritation.

Skin Contact with the solid or dust may be irritating to the skin.

LD50 Skin Not available

Ingestion Ingestion of large amounts may cause diarrhoea, nausea, vomiting, hyperpnoea and convulsions.

LD50 Oral 3883mg/kg Rat

Inhalation May cause respiratory irritation.

LD50 Inhalation ~2mg/l Rat (4 hours)

TCLo Not available

Carcinogenicity Not considered to be a carcinogen.

Mutagenicity Not considered to be a mutagen.

Reproductive Effects None identified.

## Section 12. Ecological

**12.1** Toxicity Presents no serious environmental problem.

LC50 Algal 41mg/l Green algae (72 hours)

LC50 Crustacea 140mg/l Daphnia magna (48 hours) LC50 Fish 420mg/l Rainbow Trout (96 hours)

12.2 Persistence and No

degradability

No data available.

12.3 Bioaccumulative potential No data available.12.4 Mobility in soil No data available.

**12.5** Results of PBT & vPvB

assessment

Assessment not required.

**12.6** Other adverse effects None known at present.

# Section 13. Disposal Considerations

#### 13.1 Waste treatment methods

Disposal Methods Do not dispose of as domestic waste.

Contaminated Packaging Wash out containers with water.

# Section 14. Transport Information

14.1 UN Number Non-restricted14.2 Proper Shipping Name Non-restricted

14.3 Transport classes

UN classification None Subsidiary hazard(s) None Transport category None

ADR Hazard ID Non-restricted
Tunnel Restriction Code Non-restricted

**14.4 Packing Group** None

**14.5 Environment hazards** See section 12.

**14.6 Special precautions for** No special precautions required.

user

**14.7 Transport in bulk** Not transported in bulk.

### Section 15. Regulatory Information

# $15.1\ Safety, health\ and\ environment\ regulations\ specific\ for\ subtance/mixture.$

#### Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification Skin corrosion/irritation, category 2; Serious eye damage/irritation, category 2; Spec target organ tox - single,

category 3

Signal word Warning

Hazard Pictograms



Hazard Statements H315, H319, H335

Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

Precautionary Statements P261, P264, P280, P305+P351+P338, P302+P352, P337+P313, P332+P313

Avoid breathing dust / fume / gas / mist / vapours / spray. Wash thoroughly after handling. Wear protective gloves / protective clothing / eye protection / face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. IF ON SKIN: Wash with plenty of soap and water. If eye irritation persists: Get medical advice/attention. If skin irritation occurs: Get medical

advice/attention.

### 15.2 Chemical safety assessment

Assessment not required.

### **Section 16. Other Information**

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

Revision number: 1.1 (Supercedes revision 1.0)

Revision date: 16 April 2021

Reviewed by chemist: 16 April 2021

Printed date: 16 September 2024

Copyright: 2024 Scientific Laboratory Supplies