

# **Material Safety Data Sheet**

Version:01 Revision Date 14/4/2025

Section1. Product Information and Company Identification						
Product name	Ammonium Molybdate					
Mol.formula	NH4)6Mo7O24.4H2O	Cas no	12054-85-2			
Mol.wt	1235.9 g/mol					
Manfacture name	Pioneers for laboratory chemicals					
Brand name	Piochem					
Address	Area 540, Industrial Zone 6 <sup>th</sup> October city Giza, Egypt.					
Website	www.piochem.com					
E-mail	info@piochem.com					
Phone number	+201225728304, +201023932115					

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008. This substance is not classified as dangerous according to Directive 67/548/EEC.

# 2.2 Label elements

The product does not need to be labelled in accordance with EC directives or respective national laws.

# 2.3 Other hazards - none

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

# 3.1 Substances

Molecular Weight : 1235.9 CAS-No. : 12054-85-2 EC-No. : 234-320-9

No components need to be disclosed according to the applicable regulations.



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

## 4.1 Description of first aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

## In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

The most important known symptoms and effects are described in the labelling (see section 2 .2) and/or in section 11

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

no data available

# **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

## Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

## 5.2 Special hazards arising from the substance or mixture

nitrogen oxides (NOx), Molybdenum oxides

#### 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

## 5.4 Further information

no data available

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

## 6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. For personal protection see section 8.

## 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

# 6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

For disposal see section 13.

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

#### 7.1 Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

# 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Store in cool place.



#### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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

#### 8.1 Control parameters

Components with workplace control parameters

# 8.2 Exposure controls

## Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Personal protective equipment

# Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

## Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

## **Body Protection**

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

# Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

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

flammability or

## 9.1 Information on basic physical and chemical properties

a)	Appearance	Form: crystalline Colour: white
b)	Odour	no data available
c)	Odour Threshold	no data available
d)	рН	no data available
e)	Melting point/freezing point	no data available
f)	Initial boiling point and boiling range	no data available
g)	Flash point	no data available
h)	Evapouration rate	no data available
i)	Flammability (solid, gas)	The product is not flammable.
j)	Upper/lower	no data available

R/D-SOP-001-F02 | Page 3 of 6 | Issue Date: 03/11/2024 | Effective Date: 03/12/2024 | Review Date: 03/12/2027 | Issue No. 01



#### explosive limits

k) Vapour pressure no data availablel) Vapour density no data availablem) Relative density 2,498 g/cm3

n) Water solubility soluble

o) Partition coefficient: noctanol/water no data available

p) Auto-ignition no data available temperature

q) Decomposition temperature

190°C-

r) Viscosity no data available
s) Explosive properties no data available
t) Oxidizing properties no data available

9.2 Other safety information

Bulk density 1.400 kg/m3

# **SECTION 10: Stability and reactivity**

# 10.1 Reactivity

no data available

## 10.2 Chemical stability

Stable under recommended storage conditions.

# 10.3 Possibility of hazardous reactions

no data available

# 10.4 Conditions to avoid

no data available

# 10.5 Incompatible materials

Strong oxidizing agents, Strong acids

#### 10.6 Hazardous decomposition products

In the event of fire: see section 5

# **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

# **Acute toxicity**

LD50 Oral - rat - > 2.000 mg/kg (Read-across (Analogy))

LC50 Inhalation - rat - 4 h - 5 mg/l (Read-across (Analogy))

LD50 Dermal - rabbit - > 2.000 mg/kg (Read-across (Analogy))

# Skin corrosion/irritation

Skin - rabbit

Result: No skin irritation (OECD Test Guideline 404)

#### Serious eye damage/eye irritation

Eves - rabbit

Result: Mild eye irritation

R/D-SOP-001-F02 | Page 4 of 6 | Issue Date: 03/11/2024 | Effective Date: 03/12/2024 | Review Date: 03/12/2027 | Issue No. 01



(OECD Test Guideline 405)

# Respiratory or skin sensitisation

no data available

#### Germ cell mutagenicity

Result: Not mutagenic in Ames Test.

# Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as

probable, possible or confirmed human carcinogen by IARC.

## Reproductive toxicity

no data available

# Specific target organ toxicity - single exposure

no data available

## Specific target organ toxicity - repeated exposure

no data available

# **Aspiration hazard**

no data available

# **Additional Information**

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

# **SECTION 12: Ecological information**

# 12.1 Toxicity

Toxicity to fish LC0 - Oncorhynchus mykiss (rainbow trout) - 320 mg/l - 96 h

LC50 - Oncorhynchus mykiss (rainbow trout) - 420 mg/l - 96 h

Toxicity to daphnia and

other aquatic invertebrates

EC50 - Daphnia magna (Water flea) - 140 mg/l - 48 h

Toxicity to algae EC50 - Desmodesmus subspicatus (green algae) - 41 mg/l - 72 h

#### 12.2 Persistence and degradability

The methods for determining biodegradability are not applicable to inorganic substances.

# 12.3 Bioaccumulative potential

no data available

#### 12.4 Mobility in soil

no data available

## 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

#### 12.6 Other adverse effects

Harmful to aquatic life.

no data available

## **SECTION 13: Disposal considerations**

# 13.1 Waste treatment methods

# Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

R/D-SOP-001-F02   Page 5 of 6   Issue Date: 03/11/2	024   Effective Date:03/12/2024	Review Date: 03/12/2027	Issue No. 01
---	---------------------------------	-------------------------	--------------



# Contaminated packaging

Dispose of as unused product.

# **SECTION 14: Transport information**

14.1 UN number

ADR/RID: - IMDG: - IATA: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods IMDG: Not dangerous goods Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

14.4 Packaging group

ADR/RID: - IMDG: - IATA: -

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user

no data available

# **SECTION 15: Regulatory information**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

no data available

#### 15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out