



according to Regulation (EC) No 1907/2006

Ammonium heptamolybdate tetrahydrate pure

Revision date: 16.01.2025	Product code: 06130	D Pag	ge 1 of
SECTION 1: Identification of th	e substance/mixture and of the comp	pany/undertaking	
<u>1.1. Product identifier</u> Ammonium heptamolybdate	e tetrahydrate pure		
REACH Registration Number: CAS No: EC No:	01-2119498057-28-XXXX 12054-85-2 234-722-4 e substance or mixture and uses advised	1 to -4	
	stances as such or in preparations at indus omain (administration, education, entertainr		
Do not use for private purpo			
1.3. Details of the supplier of the second secon	AnalytiChem GmbH ACD Stempelstraße 6		
Place: Telephone:	D-47167 Duisburg 0203/5194-0	Telefax:0203/5194-290	
E-mail: Contact person: E-mail: Internet: Responsible Department:	info@analytichem.de Abteilung Produktsicherheit produktsicherheit@analytichem.de www.analytichem.de Abteilung Produktsicherheit	Telephone: 0203/5194-107/117	
<u>1.4. Emergency telephone</u> number:	For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-741-5970 (collect calls accepted)		
Further Information No data available			

# **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

### Regulation (EC) No 1272/2008

This substance is not classified as hazardous in accordance with Regulation (EC) No 1272/2008.

## 2.2. Label elements

# 2.3. Other hazards

No data available

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

## 3.1. Substances

Sum formula:	(NH4)6Mo7O24 * 4 H2O
Molecular weight:	1.235,86 g/mol

## **Relevant ingredients**

none (according to Regulation (EC) No 1907/2006 (REACH))



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### **Further Information**

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

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

### 4.1. Description of first aid measures

### **General information**

Never give anything by mouth to an unconscious person or a person with cramps.

### After inhalation

Provide fresh air.

Call a doctor if you feel unwell.

### After contact with skin

Wash immediately with: Water Take off immediately all contaminated clothing and wash it before reuse. In case of skin irritation, consult a physician.

### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.

### After ingestion

Rinse mouth immediately and drink plenty of water. Call a physician immediately.

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

Irritant Vomiting Gastrointestinal complaints Circulatory collapse Blood pressure drop Spasms Narcotic effects Respiratory complaints

### 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

Co-ordinate fire-fighting measures to the fire surroundings.

### Unsuitable extinguishing media

no restriction

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

Non-combustible solids Hazardous combustion products In case of fire may be liberated: Nitrogen oxides (NOx)

### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

### Additional information

Use water spray jet to protect personnel and to cool endangered containers.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.



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## SECTION 6: Accidental release measures

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

### For non-emergency personnel

Provide adequate ventilation. Use personal protection equipment. Avoid contact with skin, eyes and clothes. Remove persons to safety. Emergency procedures Consult an expert Do not breathe dust/fume/gas/mist/vapours/spray.

### For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

For containment

Cover drains.

Prevent spread over a wide area (e.g. by containment or oil barriers).

Collect in closed and suitable containers for disposal.

Take up carefully when dry. Take up dust-free and set down dust-free.

### For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

### Other information

Provide adequate ventilation. Do not breathe dust/fume/gas/mist/vapours/spray. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

## 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

### Advice on safe handling

Handle and open container with care. Keep container tightly closed. Provide adequate ventilation. Avoid dust formation. Do not breathe dust. Avoid contact with skin, eyes and clothes.

### Advice on protection against fire and explosion

No special fire protection measures are necessary.

### Advice on general occupational hygiene

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

### Further information on handling

Wash contaminated clothing before reuse. Wash hands before breaks and after work.

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

## Requirements for storage rooms and vessels

Keep container tightly closed. storage temperature +5°C - +30°C



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### Hints on joint storage

No special measures are necessary.

Further information on storage conditions

Store in a dry place.

### 7.3. Specific end use(s)

Laboratory chemicals

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

## 8.1. Control parameters

### 8.2. Exposure controls

### Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

### Individual protection measures, such as personal protective equipment

### Eye/face protection

Wear eye protection/face protection.

### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

By long-term hand contact Trade name/designation: KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11 mm Wearing time with permanent contact: > 480 min

By short-term hand contact Trade name/designation: KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11 mm Wearing time with occasional contact (splashes): > 480 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

### Skin protection

Wear suitable protective clothing.

### **Respiratory protection**

Respiratory protection necessary at: dust formation Filtering device with filter or ventilator filtering device of type: P1 The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

### Environmental exposure controls

Do not allow to enter into surface water or drains.



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

## 9.1. Information on basic physical and chemical properties

9.1. Information on basic physical and		
Physical state:	solid	
Colour:	colourless	
Odour:	like: Ammonia	
Odour threshold:	No data available	
Melting point/freezing point:		90 °C
Boiling point or initial boiling point an	nd	No data available
boiling range:		
Flammability:		not determined
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Flash point:		Х
Auto-ignition temperature:		No data available
Decomposition temperature:		190 °C
pH-Value (at 20 °C):		~5,3 (50 g/l)
Viscosity / kinematic:		No data available
Water solubility:		400 g/l
(at 20 °C)		400 g/i
Solubility in other solvents		
not determined		
Partition coefficient n-octanol/water:		
		not determined
Vapour pressure:		No data available
Vapour pressure:		No data available
Density (at 20 °C):		2,498 g/cm <sup>3</sup>
Bulk density:		800 kg/m <sup>3</sup>
Relative vapour density:		not determined
9.2. Other information		
Information with regard to physica	l hazard classes	
Explosive properties		
No data available		
Sustaining combustion:		No data available
		No data available
Sustaining combustion:		No data available not determined
Sustaining combustion: Self-ignition temperature Solid: Gas:		
Sustaining combustion: Self-ignition temperature Solid:		not determined
Sustaining combustion: Self-ignition temperature Solid: Gas:		not determined
Sustaining combustion: Self-ignition temperature Solid: Gas: Oxidizing properties		not determined
Sustaining combustion: Self-ignition temperature Solid: Gas: Oxidizing properties Not oxidising.		not determined
Sustaining combustion: Self-ignition temperature Solid: Gas: Oxidizing properties Not oxidising. Other safety characteristics Evaporation rate:		not determined not applicable
Sustaining combustion: Self-ignition temperature Solid: Gas: Oxidizing properties Not oxidising. Other safety characteristics		not determined not applicable not determined
Sustaining combustion: Self-ignition temperature Solid: Gas: Oxidizing properties Not oxidising. Other safety characteristics Evaporation rate: Solvent separation test:		not determined not applicable not determined No data available
Sustaining combustion: Self-ignition temperature Solid: Gas: Oxidizing properties Not oxidising. Other safety characteristics Evaporation rate: Solvent separation test: Solvent content:		not determined not applicable not determined No data available 0
Sustaining combustion: Self-ignition temperature Solid: Gas: Oxidizing properties Not oxidising. Other safety characteristics Evaporation rate: Solvent separation test: Solvent content: Solid content:		not determined not applicable not determined No data available 0 100,00 %
Sustaining combustion: Self-ignition temperature Solid: Gas: Oxidizing properties Not oxidising. Other safety characteristics Evaporation rate: Solvent separation test: Solvent content: Solid content: Sublimation point:		not determined not applicable not determined No data available 0 100,00 % No data available
Sustaining combustion: Self-ignition temperature Solid: Gas: Oxidizing properties Not oxidising. Other safety characteristics Evaporation rate: Solvent separation test: Solvent content: Solid content: Sublimation point: Softening point:		not determined not applicable not determined No data available 0 100,00 % No data available No data available
Sustaining combustion: Self-ignition temperature Solid: Gas: Oxidizing properties Not oxidising. Other safety characteristics Evaporation rate: Solvent separation test: Solvent separation test: Solvent content: Solid content: Sublimation point: Softening point: Pour point: No data available:		not determined not applicable not determined No data available 0 100,00 % No data available No data available
Sustaining combustion: Self-ignition temperature Solid: Gas: Oxidizing properties Not oxidising. Other safety characteristics Evaporation rate: Solvent separation test: Solvent separation test: Solvent content: Solid content: Sublimation point: Softening point: Pour point: No data available: Viscosity / dynamic:		not determined not applicable not determined No data available 0 100,00 % No data available No data available No data available
Sustaining combustion: Self-ignition temperature Solid: Gas: Oxidizing properties Not oxidising. Other safety characteristics Evaporation rate: Solvent separation test: Solvent separation test: Solvent content: Solid content: Sublimation point: Softening point: Pour point: No data available:		not determined not applicable not determined No data available 0 100,00 % No data available No data available No data available

No data available



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### **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

No data available

## 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

Strong acid

#### 10.4. Conditions to avoid

Heat

### 10.5. Incompatible materials

No data available

### 10.6. Hazardous decomposition products

In case of fire may be liberated: SECTION 5: Firefighting measures

## Further information

No data available

### **SECTION 11: Toxicological information**

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

### Toxicocinetics, metabolism and distribution

#### No data available

### Acute toxicity

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

#### Irritation and corrosivity

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

### Sensitising effects

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

### Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met. Carcinogenicity: Based on available data, the classification criteria are not met. Reproductive toxicity: Based on available data, the classification criteria are not met.

### STOT-single exposure

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

### STOT-repeated exposure

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

### Aspiration hazard

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

### Information on likely routes of exposure

### No data available

### Specific effects in experiment on an animal

No data available

### Additional information on tests

No data available

# Practical experience

## No data available



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### 11.2. Information on other hazards

Endocrine disrupting properties No data available

### Other information

Irritant Vomiting Gastrointestinal complaints Circulatory collapse Blood pressure drop Spasms Narcotic effects Respiratory complaints

### **Further information**

No data available

### **SECTION 12: Ecological information**

### 12.1. Toxicity

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

## 12.2. Persistence and degradability

No data available

## 12.3. Bioaccumulative potential

No data available

## 12.4. Mobility in soil

No data available

## 12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

### 12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

### 12.7. Other adverse effects

Do not empty into drains.

### **Further information**

Avoid release to the environment.

## **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

### **Disposal recommendations**

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Do not empty into drains.

### Contaminated packaging

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

### **SECTION 14: Transport information**

### Land transport (ADR/RID)

14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

### Inland waterways transport (ADN)



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<u>14.1. UN number or ID number:</u>	No dangerous good in sense of this transport regulation.			
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.			
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.			
14.4. Packing group:	No dangerous good in sense of this transport regulation.			
Marine transport (IMDG)				
14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.			
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.			
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.			
14.4. Packing group:	No dangerous good in sense of this transport regulation.			
Air transport (ICAO-TI/IATA-DGR)				
14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.			
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.			
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.			
14.4. Packing group:	No dangerous good in sense of this transport regulation.			
14.5. Environmental hazards				
ENVIRONMENTALLY HAZARDOUS:	No			
14.7. Maritime transport in bulk according to	o IMO instruments			
not applicable				
SECTION 15: Regulatory information				
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture				
National regulatory information				
Water hazard class (D):	1 - slightly hazardous to water			
	r - signify hazardous to watch			

Additional information

No data available

## **SECTION 16: Other information**

### Changes

This data sheet contains changes from the previous version in section(s): 9,12.

### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service LC50: Lethal concentration, 50% LD50: Lethal dose, 50%

### **Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.