

Safety Data sheet

According to Directive 1907/2006

0212 AMMONIUM MOLYBDATE 4-HYDRATE

Creation Date: 01/12/2010 Revision date: 31/05/2017

1. Identification of the substance/preparation and of the company/undertaking

Identification of the product

Catalogue No: 0212 Product name: AMMONIUM MOLYBDATE 4-HYDRATE Use of the substance: Analysis and chemical pharmaceutical production.

Company/undertaking identification

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2. Hazards identification

Labelling in accordance with directive 1907/2006



R-phrases

22 Harmful if swallowed.

S-phrases

24 Avoid contact with skin.

Labelling in accordance with directive 1272/2008

HARMFUL

R-phrases:

Harmful if swallowed.

Product not dangerous according to Regulation (EC) 1272/2008

3. Composition/information on ingredients

For the full text of the R phrases mentioned in this section, see Section 16.

CAS-No.: 12054-85-2

Molecular Weight: 1235,86

Chemical formula: $(\text{NH}_4)_6\text{Mo}_7\text{O}_{24} \cdot 4\text{H}_2\text{O}$

EC-No.: 234-722-4

R-phrases 22

For more information about the R-Phrases text you can consult the paragraph 16

4. First aid measures

After inhalation:

Fresh air

After skin contact:

Rinse with abundant water (or have a shower)

Get rid of the contaminated clothes

After eye contact:

Rinse with abundant water, keeping eyelids open (at least 10 min)

After swallowing:

Drink lots of water

To cause vomit

Call the doctor

5. Fire-fighting measures

Suitable extinguishing media:

Adapt the materials of the surroundings

Special risks:

Fireproof

Ambient fire may liberate hazardous vapours

The following may develop in event of fire nitrogen oxides

Special protective equipment for fire fighting:

Remain in the risk area only if provided with independent artificial respiratory systems.

Other information:

Precipitate emergent steam with water

Avoid the penetration of the extinction water in superficial or subterranean aquifers.

6. Accidental release measures

Person-related precautionary measures:

Avoid dust formation

Do not inhale dust

Procedures for cleaning/absorption:

Dry cleaning. Proceed to the elimination of any waste.

Rinse.

Environmental protection measures:

Do not send it to the sewerage system

7. Handling and storage

Handling: Without other exigencies

Storage:

Well closed
Dry place.
Storage temperature: without limits

8. Exposure controls/personal protection

Exposure limit control
TLV-TWA: 5 mg/m³ (Mo)

Personal protective equipment:

Respiratory protection:

Necessary respiratory protection in the presence of dust

Hand protection:

Needed

Protection gloves:

Nitrile rubber

Eye protection:

Needed

Other protective equipment:

Change immediately contaminated clothes

Wash hands when work is finished

Fulfill the commitments under local environmental protection legislation

9. Physical and chemical properties

Physical state: Solid
Colour: Colourless to yellowish
Odour: Slightly of ammonia
pH value: 5,3 (50 g/l H₂O)
Melting point: 90°C
Boiling point: 190°C
Solubility: 400 g/l (water)

10. Stability and reactivity

Substances to be avoided:

Strong acids.

Hazardous decomposition products:

Nitrous gases.

Ammonia.

Further information:

To avoid heating (decomposition).

11. Toxicological information

Acute toxicity:

LD50 (oral, rat): 333 mg/kg

After eye contact:

Slight irritation

After skin contact:

Irritations

After inhalation:

Irritations of the mucous membranes

Irritation of: respiratory tract

After swallowing:

Vomiting

Diarrhoea

Tiredness

Damage of liver

Damage of kidneys

12. Ecological information

Fishes: EC50: 25 mg/l (Mo)

Algae: Sc. quadricauda EC50: 54 mg/l (Mo)

Bioaccumulation: A bioaccumulation is possible (Mo).

Other harmful effects:

Harmful effect on aquatic organisms

Harmful effect due to pH shift

Does not cause biological oxygen deficit

Do not allow to enter waters, waste water, or soil

13. Disposal considerations

Product:

Dispose as regulated in the community countries by local regulations.

Please contact with the suitable authority in each case (Public Administration or company specialized in

Packaging:

Product packaging disposal must be disposed of in compliance with the respective local regulations.

For contaminated packaging the same measures must be adopted as for the contaminated product.

Not contaminated packaging must be disposed of as domestic residues or recycled material.

European Directive 94/62/EC of 20 December 1994 on packaging and packaging waste

14. Transport information

Overland transport ADR/RID

Sea transport IMDG

Air transport ICAO-IATA-DGR

15. Regulatory information

16. Other information

Full text of R phrases mentioned in sections 2 and 3

22 Harmful if swallowed.

The information contained herein is based on the present state of our knowledge.

It characterizes the product with regard to appropriate safety precautions. It does not represent a guaranty of the properties of the product.

