

Safety Data sheet

According to Directive 1907/2006

3528 MANGANESE (II) SULPHATE 1-HYDRATE GMP

Creation Date: 04/03/2014 Revision date: 31/05/2017

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

Identification of the product

Catalogue No: 3528 Product name: MANGANESE (II) SULPHATE 1-HYDRATE GMP Use of the substance: Analysis and chemical-pharmaceutical production. REACH registration Nr.: 01-2119456624-35-0026

Company/undertaking identification

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2. Hazards identification

Labelling in accordance with directive 1907/2006



R-phrases

48/20/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases

22 Do not breathe dust.

61 Avoid release to the environment. Refer to special instructions / Safety data sheets.

Labelling in accordance with directive 1272/2008





H-phrases

373 May cause damage to organs through prolonged or repeated exposure.
318 Causes serious eye damage.
411 Toxic to aquatic life with long lasting effects.

P-phrases

273 Avoid release to the environment.
280 Wear protective gloves/protective clothing/eye protection/face protection.
314 Get medical advice/attention if you feel unwell.
305+351 If in eyes: Rinse cautiously with water for several minutes.

Signal word : DANGER

HARMFUL; DANGEROUS FOR ENVIRONMENT

R-phrases:

Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. Composition/information on ingredients

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

CAS-No.: 10034-96-5

Molecular Weight: 169,01

Chemical formula: $MnSO_4 \cdot H_2O$

EC-Index-No.: 025-003-00-4

EC-No.: 232-089-9

R-phrases 48/20/22; 51/53

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

4. First aid measures

After inhalation:

Fresh air

If necessary, artificial respiration

Call the physician

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)

Call the ophthalmologist

After swallowing:

Drink lots of water

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

Special protective equipment for fire fighting:

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

Other information:

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

6. Accidental release measures

Person-related precautionary measures:

Do not inhale dust

Avoid contact with the substance

Ventilation in closed spaces

Procedures for cleaning/absorption:

Dry cleaning. Proceed to the elimination of any waste.

Rinse.

To avoid the inert dust formation

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

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

Recommendable preventive protection of the skin

Wash hands and face when the work is finished

Fulfill the commitments under local environmental protection legislation

9. Physical and chemical properties

Physical state: Solid

Colour: Pink

Odour: Odourless

pH value: 3,0-3,5 (50 g/l H₂O)

Melting point: 700°C

Boiling point: 850°C

Solubility: 762 g/l (water)

10. Stability and reactivity

Substances to be avoided:

Strong oxidizing agents.
Metal (powder).
Hydrogen peroxide.
Strong acids.

Hazardous decomposition products:

Sulphoxides.
Manganese oxide

Further information:

Hygroscopic.
Releases water of crystallization when heated.

11. Toxicological information

Acute toxicity:

LD50 (oral, rat): >2130 mg/kg (anhydrous substance)

After eye contact:

Pain

After inhalation:

Dyspnoea
Pneumonia

After swallowing:

Irritations of mucous membranes in the mouth
Irritations of pharynx
Irritations of oesophagus
Irritations of gastrointestinal tract
Nausea
Vomiting
Diarrhoea
Stomach pains

Further toxicological information:

Take the usual precautions for handling chemical products

12. Ecological information

Fishes: *Leuciscus idus* LC50: 2490 mg/l (Mn)

Daphnia: *Daphnia magna* LC50: 50 mg/l (Mn)

Other harmful effects:

Highly toxic for aquatic organisms
May cause long-term adverse effects in the aquatic environment
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

UN: 3077
Class: 9
Packaging group: III
Correct technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Sea transport IMDG

UN: 3077
Class: 9/III
Packaging group: III
Correct technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Air transport ICAO-IATA-DGR

UN: 3077
Class: 9
Packaging group: III
Correct technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
CAO: 956
PAX: 956

15. Regulatory information

16. Other information

Full text of R phrases mentioned in sections 2 and 3

48/20/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swal

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.