

Safety Data sheet

According to Directive 1907/2006

3411 MANGANESE (II) CHLORIDE 4-H₂O parenteral GMP

Creation Date: 06/08/2018 Revision date: 06/08/2018

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

Identification of the product

Catalogue No: 3411 Product name: MANGANESE (II) CHLORIDE 4-H₂O parenteral GMP Use of the substance: Analysis and chemical-pharmaceutical production. REACH registration Nr.: 01-2119934899-15-0005

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





H-phrases

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

P-phrases

301+312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
305+351 If in eyes: Rinse cautiously with water for several minutes.
310 Immediately call a POISON CENTER or doctor/physician.
314 Get medical advice/attention if you feel unwell.
264 Wash
273 Avoid release to the environment.
260 Do not breathe dust/fume/gas/mist/vapours/spray.
280 Wear protective gloves/protective clothing/eye protection/face protection.

Signal word : DANGER

HARMFUL

R-phrases:

Harmful if swallowed.

3.Composition/information on ingredients

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

CAS-No. : 13446-34-9

Molecular Weight: 197,90

Chemical formula: $MnCl_2 \cdot 4H_2O$

EC-No. : 231-869-6

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

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: hydrochloric acid

Special protective equipment for fire fighting:

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

In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.

Other information:

Precipitate emergent steam with water

Avoid penetration in superficial or subterraneous aquifers

6. Accidental release measures

Person-related precautionary measures:

Do not inhale dust

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

Do not use metallic containers

Do not use light-weight-metal containers

8. Exposure controls/personal protection

Exposure limit control

TLV-TWA: 0.2 mg/m³ (as Mn)

Personal protective equipment:

Respiratory protection:

Necessary respiratory protection in the presence of dust

Hand protection:

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: 3,5-6 (50 g/l H₂O, 25°C).
Melting point: 58°C
Boiling point: 1190°C
Solubility: 1980 g/l (water, 20°C).
log P(ow): 0,85 (anhydrous substance).

10. Stability and reactivity

Substances to be avoided:

Alkaline metals.

Zinc.

Acids.

Hazardous decomposition products:

Hydrogen chloride.

Further information:

Strong heating (decomposition).

Releases water of crystallization when heated.

11. Toxicological information

Acute toxicity:

LD50 (oral, rat): 1484 mg/kg.

After swallowing:

Absorption

Further toxicological information:

Other dangerous characteristics are not discarded

Take the usual precautions for handling chemical products

12. Ecological information

Fishes: *Oryzias latipes*, LC50: >1000 mg/l/48h (anhydrous substance).

Daphnia: *Daphnia magna*, CE50: 4,7 mg/l/48h (anhydrous substance).

Log P(ow): 0,85 (anhydrous substance).

Bioaccumulation: No bioaccumulation is to be expected.

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
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.