



Trade name: Mangani(II)-chloridum tetrahydricum

Substance number: 065464

Version: 1 / CH

Date revised: 27.03.12

Replaces Version: - / CH

Date of printing: 27.03.12

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

1.1. Product identifier

Mangani(II)-chloridum tetrahydricum
Item-No. 06546400

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/preparation

Reagent for analyses

1.3. Details of the supplier of the safety data sheet

Address

Hänseler AG
Industriestrasse 35
9101 Herisau
Telephone no. 0041 (0)71 353 58 58
E-mail address of person responsible for this SDS sdb@haenseler.ch

1.4. Emergency telephone number

Switzerland :145 / Abroad +41 (0)44 251 51 51

2. Hazards identification

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)
Acute Tox. 4 H302
Aquatic Chronic 2 H411

Classification in accordance with EC directives

Classification Xn, R22
N, R51/53

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal Word

Warning

Hazard statements

H302 Harmful if swallowed.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.

Labelling in accordance with EC directives 1999/45/EC and 67/548/EEC



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The product is classified and labelled in accordance with EC directives/the relevant national laws.

Hazard symbols

Dangerous for the environment



Harmful

R phrases

22

Harmful if swallowed.

51/53

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

S phrases

61

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

Hazardous component(s) to be indicated on label

contains

Mangan(II)-chlorid Tetrahydrat

3. Composition/information on ingredients**Molecular weight**

Value

197.91

g/mol

Hazardous ingredients**Mangan(II)-chlorid Tetrahydrat**

CAS No.

13446-34-9

EINECS no.

231-869-6

Concentration

>=

50

%

Classification

Xn, R22

N, R51/53

Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 4

H302

Aquatic Chronic 2

H411

4. First aid measures**4.1. Description of first aid measures****After inhalation**

Ensure supply of fresh air.

After skin contact

In case of contact with skin wash off immediately with plenty of water. Remove contaminated, soaked clothing immediately and dispose of safely.

After eye contact

In case of contact with eyes rinse thoroughly with water.

After ingestion

Drink water in small gulps. Seek medical advice immediately.

5. Firefighting measures



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5.1. Extinguishing media

Suitable extinguishing media

Extinguishing measures to suit surroundings

5.2. Special hazards arising from the substance or mixture

If a fire breaks out nearby evolution of dangerous gases possible. In the event of fire the following can be released: Hydrogen chloride (HCl)

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Use self-contained breathing apparatus. Wear protective clothing.

Other information

Suppress vapours with water spray jet. Do not discharge into surface waters/groundwater.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Do not inhale dust. Ensure adequate ventilation. Wear protective equipment

6.2. Environmental precautions

Do not allow to enter drains.

6.3. Methods and material for containment and cleaning up

Dampen, pick up mechanically and dispose of. Clean up affected area. Avoid raising dust.

6.4. Reference to other sections

Information regarding Waste Disposal, see chapter 13.

7. Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Observe safety references and application instructions mentioned on can.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Do not use metal containers. Do not store or transport in containers made of light metals or alloys.

Further information on storage conditions

Keep container tightly closed. Store in a dry place

8. Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

Manganese (II) chloride

List	SUVA	
Type	MAK	
Value	0,5	mg/m ³
Pregnancy group: C; Status: 2011; Remarks: BP		

8.2. Exposure controls

General protective and hygiene measures



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Wash contaminated clothing before reuse. Preventative skin protection. Wash hands before breaks and after work.

Respiratory protection

Breathing apparatus in the event of aerosol. Short term: filter apparatus, Filter P1

Hand protection

Use of the substance/preparation Permanent hand contact

Appropriate Material nitrile rubber - NBR

Material thickness 0.11 mm

Penetrating time > 480 min

Use of the substance/preparation Short-term hand contact

Appropriate Material nitrile rubber - NBR

Material thickness 0.11 mm

Penetrating time > 480 min

Eye protection

Safety glasses

Body protection

protective overalls

9. Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Form solid

Colour pink

Odour odourless

pH

Value 3.5 to 6

Concentration/H₂O 50 g/l

Temperature 25 °C

Melting point

Value 650 °C

Boiling point

Value 1190 °C

Pressure 1013 hPa

Flash point

Remarks Not applicable

Solubility in water

Value 1980 g/l

Temperature 20 °C

Octanol/water partition coefficient (log Pow)

log Pow 0.85

Source Literature value

Thermal decomposition

Value 106 to 198 °C

Remarks Loss of crystal water.

9.2. Other information**Bulk density**

Value appr. 1150 kg/m³



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Other information

The product is not combustible.

10. Stability and reactivity**10.4. Conditions to avoid**

To avoid thermal decomposition, do not overheat.

Thermal decomposition

Value	106	to	198	°C
Remarks	Loss of crystal water.			

10.5. Incompatible materials

Risk of explosion with: Alkaline metals, Zinc, Reacts violently with: Acids

11. Toxicological information**11.1. Information on toxicological effects****Acute oral toxicity**

Species	rat		
LD50	1484		mg/kg
Source	RTECS		

Other information

Observe the usual precautions for handling chemicals.

12. Ecological information**12.1. Toxicity****Daphnia toxicity**

Species	Daphnia magna		
EC50	4.7		mg/l
Duration of exposure	48	h	

12.3. Bioaccumulative potential**Octanol/water partition coefficient (log Pow)**

log Pow	0.85
Source	Literature value

12.6. Other adverse effects**General information / ecology**

Do not allow it to reach ground water, water bodies or sewage system.

13. Disposal considerations**13.1. Waste treatment methods****Disposal recommendations for the product**

Disposal in compliance with local and national regulations.

Disposal recommendations for packaging

Dispose of as unused product.

14. Transport information**Land transport ADR/RID**



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14.1. UN number

UN 3077

14.2. UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S

14.3. Transport hazard class(es)

Class 9

Label 9

14.4. Packing group

Packing group III

Marine transport IMDG/GGVSee**14.1. UN number**

UN 3077

14.2. UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S

14.3. Transport hazard class(es)

Class 9

14.4. Packing group

Packing group III

Air transport ICAO/IATA**14.1. UN number**

UN 3077

14.2. UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S

14.3. Transport hazard class(es)

Class 9

14.4. Packing group

Packing group III

15. Regulatory information**15.2. Chemical safety assessment**

For this substance a chemical safety assessment has not been carried out.

16. Other information**R-phrases listed in chapter 3**

22 Harmful if swallowed.

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

Hazard statements listed in chapter 3

H302 Harmful if swallowed.

H411 Toxic to aquatic life with long lasting effects.

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.