

Material Data Safety Sheet

According to (EG) Nr. 1907/2006 (REACH)

Updated:12.04.2011

Manganese(II) chloride tetrahydrate, Art. Nr. 31556

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product name : **Manganese(II) chloride tetrahydrate**

Product Number : 31556

Company:

Gatt-Koller GmbH

Swarovskistrasse 74

A-6067 Absam

Phone: 0043-5223-44216-0

Fax: 0043-5223-43216

Emergency Phone: 0049-551-19240

2. HAZARDS IDENTIFICATION

Label elements

Pictogram



Signal Word Warning

Hazard statement(s)

H302 Harmful if swallowed.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P273 Avoid release to the environment.

P501 Dispose of contents/ container to an approved waste disposal plant.

(67/548/EWG oder 1999/45/EG)

Symbol: Xn (Harmful)

R-phrases: 22 Harmful if swallowed.

3. Composition/information on ingredients

Identification and amount of the components:

CAS: 13446-34-9

Molecular weight: 197.91

EC number: 231-869-6

Formula: $\text{MnCl}_2 \cdot 4\text{H}_2\text{O}$

4. First aid measures

After inhalation: Fresh air. Consult doctor if feeling unwell.

After skin contact: wash off with plenty of water. Remove contaminated clothing.

After ingestion: make victim drink plenty of water, induce vomiting, summon doctor.

After eye contact: rinse out with plenty of water with the eyelid held wide open. Summon eye specialist.

5. Fire-fighting measures

Suitable extinguishing media: To suit environment.

Special risks: Non-combustible. Formation of combustion gases or dangerous vapours possible in event of fire.

Special protective equipment for fire fighting: Do not stay in dangerous zone without suitable chemical protection clothing and self-contained breathing apparatus.

Further information: Prevent fire-fighting water from entering surface water or groundwater.

6. Accidental release measures

Person-related precautionary measures: Avoid substance contact. Avoid generation of dusts; do not

inhale dusts.

Environmental precautions: Do not allow to enter sewerage system.

Procedures for cleaning / absorption: Take up dry. Forward for disposal. Clean up.

7. Handling and storage

Handling: No further requirements.

Storage: Store tightly closed and dry. Storage temperature: no restrictions.

8. Exposure controls/personal protection

Exposure limit values: (MAK, Germany):

Exposure controls:

Occupational exposure controls: The personal protective equipment must be selected according to the working place, based on the concentration and amount of the dangerous substance. The supplier should indicate the stability of the personal protective equipment to chemical reagents.

Respiratory protection: required when dusts are generated.

Hand protection: required

Eye protection: required

Industrial hygiene: Change contaminated clothing. Wash hands after working with substance.

9. Physical and chemical properties

General information:

Form: solid

Colour: pink

Odour: odourless

Important health, safety and environmental information:

pH value: (50 g/l H₂O, 20 °C) ~ 4 - 6

Boiling temperature: ---

Flash point: ---

Explosion limits (low): ---

Explosion limits (high): ---

Vapour pressure: ---

Density (20 °C): ---

Solubility in water: (20 °C): 1980 g/l

Solubility in: ethanol: soluble

Viscosity: ---

Refractive index: ---

Melting temperature: 58 °C

Ignition temperature: ---

10. Stability and reactivity

Conditions to be avoided: No information available.

Substances to be avoided: alkali metals, zinc/heat.

Hazardous decomposition products: No information available.

11. Toxicological information

Acute toxicity:

LD₅₀(oral, rat): 1484 mg/kg

Subacute to chronic toxicity:

Teratogenicity: An embryotoxic effect need not be feared when the threshold limit value is observed.

Further toxicological information:

After ingestion: drowsiness, spasms, ataxia (impaired locomotor coordination).

Further information:

Manganese compounds are in general only very slightly absorbable via the gastrointestinal tract.

Hazardous properties cannot be excluded .

The product should be handled with the care usual when dealing with chemicals.

12. Ecological information

Ecotoxic effects: Quantitative data on the ecological effect of this product are not available.

Further ecologic data:

For manganese ions generally: Toxic for aquatic organisms. Fish toxicity: *Idus idus* LC₅₀: 2490 mg/l; trout LC₅₀: 2,91 mg /28d. Daphnia toxicity: *Daphnia magna* EC₅₀: 50 mg/l. Bacterial toxicity: *Ps. putida*: 10,6 mg/l; *Photobacterium phosphoreum*: 14,7 mg/l. Do not allow to enter waters, waste water, or soil!

13. Disposal considerations

Product: There are no uniform EU Regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EU member countries through corresponding laws and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste.

Packaging: Disposal in compliance with official regulations. Handle contaminated packaging in the same way as the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

14. Transport information

Not subject to transport regulations.

15. Regulatory information

Label elements



Signal Word Warning

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P273 Avoid release to the environment.

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EC-classification: This product is not included in the dangerous substances index with its corresponding EC index number, so it has been classified according to the annex VI of the 2001/59/EC directive.

Symbol: Xn (Harmful)

R-phrases: 22 Harmful if swallowed.

S-phrases: 46 If swallowed seek medical advice immediately and show this container or label

EC-Index-No: ---

German regulations

Water pollution class 1 (slightly polluting substance) VwVwS Anh. 2 KennNr. 494

Storage class VCI 10 - 13

16. Other information

Date: 04/04/2006

The information supplied in this data sheet, is based on the present state of our knowledge. The purpose of this information, is only to describe the security measures to follow in the handling of the product.

Therefore it does not represent a guarantee about the properties of the product.

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