

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

### *Identification of the product*

Manganese(II) chloride tetrahydrate

### *Manufacturer/supplier identification*

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## 2. Hazards identification

Classification of the substance or mixture

According to Regulation (EC) No1272/2008

Acute toxicity, Oral (Category 3)

Chronic aquatic toxicity (Category 3)

Long-term (chronic) aquatic hazard (Category 3)

Pictogram



Signal word    Warning

Hazard statement(s)

H301    Toxic if swallowed.

H412    Harmful to aquatic life with long-lasting effects

Precautionary statement(s)

P264    Wash thoroughly after handling.

P270    Do not eat, drink or smoke when using this product.

P273    Avoid release to the environment.

P301+P312    IF SWALLOWED: call a POISON CENTER/doctor. IF you feel unwell.

P330    Rinse mouth.

P405    Store locked up.

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

## 3. Composition/information on ingredients

### *Synonyms*

Manganese(II) chloride tetrahydrate

CAS-No.: 13446-34-9

M: 197.90 g/mol

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

## 4. First aid measures

### **If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

### **In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

### **In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**5. Fire-fighting measures****Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Advice for firefighters**

Wear self contained breathing apparatus for fire fighting if necessary.

**6. Accidental release measures****Personal precautions**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

**Environmental precautions**

Do not let product enter drains.

**Methods and materials for containment and cleaning up**

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

**7. Handling and storage****Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

**Conditions for safe storage**

Keep container tightly closed in a dry and well-ventilated place.

**8. Exposure controls/personal protection****Appropriate engineering controls**

General industrial hygiene practice.

**Personal protective equipment****Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

**Body Protection**

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

## **9. Physical and chemical properties**

**Form:** crystals

**Colour:** pink

**Odour:** not available

**pH value:** not available

**Melting point:** 58°C

**Boiling point:** 732°C

**Ignition temperature:** not available

**Flash point:** not available

**Autoignition temperature:** not available

**Explosion limits**

**lower:** not available

**upper:** not available

**Density :** 2.01

**Bulk density:** not available

**Solubility in**

**water (20 °C) :** soluble in water

**diluted acids (20 °C) :** not available

**Thermal decomposition:** not available

## **10. Stability and reactivity**

**Chemical stability**

no data available

**Conditions to avoid**

no data available

**Materials to avoid**

Sodium/sodium oxide, strong acid, potassium, zinc.

**Hazardous decomposition products**

Other decomposition products - no data available

## **11. Toxicological information**

**Acute toxicity**

LD50 Oral - Rat - - 1484 mg/kg

**Skin corrosion/irritation**

no data available

**Serious eye damage/eye irritation**

no data available

**Respiratory or skin sensitization**

no data available

**Germ cell mutagenicity**

no data available

**Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Specific target organ toxicity - single exposure**

no data available

**Specific target organ toxicity - repeated exposure**

no data available

**Aspiration hazard**

no data available

**12. Ecological information**

**Toxicity**

Toxicity to fish LC50 - Crucian carp (goldfish) - 18.8mg/L - 7 d  
Toxicity to daphnia and EC50 - Large fleas (water fleas) - > 11 mg/l - 48 h  
other aquatic invertebrates

**Persistence and degradability**

no data available

**Bioaccumulative potential**

no data available

**Mobility in soil**

no data available

**PBT and vPvB assessment**

no data available

**Other adverse effects**

no data available

**13. Disposal considerations**

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**

Dispose of as unused product.

**14. Transport information**

**ADR/RID**

UN-Number: 3288 Class: 6.1 Packing group: III  
Proper shipping name: INORGANIC TOXIC SOLID, NOT OTHERWISE SPECIFIED (manganese chloride)

**IMDG**

UN-Number: 3288 Class: 6.1 Packing group: III  
Proper shipping name: INORGANIC TOXIC SOLID, NOT OTHERWISE SPECIFIED (manganese chloride)  
Marine pollutant: no

**IATA**

UN-Number: 3288 Class: 6.1 Packing group: III  
Proper shipping name: inorganic toxic solid, not otherwise specified (manganese chloride)

**15. Regulatory information**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

**16. Other information**

General update.

*Regional representation:*

This information is given on the authorised Safety Data Sheet for your country.