

# **SAFETY DATA SHEET**

Creation Date 24-Jan-2011 Revision Date 25-May-2017 Revision Number 3

1. Identification

Product Name Manganese(II) chloride tetrahydrate

Cat No.: AC193450000; AC193451000; AC193455000

Synonyms No information available

Recommended Use Laboratory chemicals.

Uses advised against

Not for food, drug, pesticide or biocidal product use

Details of the supplier of the safety data sheet

### **Emergency Telephone Number**

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe**:001-703-527-3887

# 2. Hazard(s) identification

## Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

## Label Elements

## Signal Word

Danger

#### **Hazard Statements**

Harmful if swallowed

Causes serious eye damage

May cause damage to organs through prolonged or repeated exposure

## **Precautionary Statements**

#### Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face protection

Do not breathe dust/fume/gas/mist/vapors/spray

#### Response

Get medical attention/advice if you feel unwell

#### **Eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

## Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

## Disposal

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

Toxic to aquatic life with long lasting effects

## 3. Composition / information on ingredients

ComponentCAS-NoWeight %Manganous chloride tetrahydrate13446-34-9>95Manganese(II) chloride7773-01-5-

## 4. First-aid measures

General Advice If symptoms persist, call a physician.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Obtain medical attention.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists,

call a physician.

Inhalation Move to fresh air. If not breathing, give artificial respiration. Get medical attention if

symptoms occur.

Ingestion Clean mouth with water and drink afterwards plenty of water. Get medical attention if

symptoms occur.

Most important symptoms/effects

Notes to Physician

None reasonably foreseeable. Causes severe eye damage.

Treat symptomatically

### Sensitivity to Static Discharge No information available

## Specific Hazards Arising from the Chemical

Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes. Keep product and empty container away from heat and sources of ignition.

#### **Hazardous Combustion Products**

Hydrogen chloride gas Heavy metal oxides

## **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

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| <b>Health</b> | <b>Flammability</b> | Instability | Physical hazards |
|---------------|---------------------|-------------|------------------|
| 2             | 0                   | 1           | N/A              |
|               |                     |             |                  |

### 6. Accidental release measures

**Personal Precautions Environmental Precautions**  Use personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Do not flush into surface water or sanitary sewer system. Should not be released into the environment. Do not allow material to contaminate ground water system.

Methods for Containment and Clean Sweep up or vacuum up spillage and collect in suitable container for disposal. Keep in Up suitable, closed containers for disposal.

|          | 7. Handling and storage   |
|----------|---|
| Handling | Wear personal protective equipment. Avoid ingestion and inhalation. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid dust formation. |
| Storage  | Keep containers tightly closed in a dry, cool and well-ventilated place.  |

Keep containers tightly closed in a dry, cool and well-ventilated place.

## 8. Exposure controls / personal protection

## **Exposure Guidelines**

Component

**Respiratory Protection** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard

> EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

**Hygiene Measures** 

9. Physical and chemical properties

**Physical State** Solid Powder **Appearance** Light red Odor Odorless

**Odor Threshold** No information available рΗ 4-6 5% aq.solution

Melting Point/Range 58 °C / 136.4 °F No information available **Boiling Point/Range Flash Point** No information available

**Evaporation Rate** Not applicable Flammability (solid,gas)

No information available Flammability or explosive limits

No data available Upper No data available Lower **Vapor Pressure** No information available Vapor Density Not applicable

**Specific Gravity** No information available Solubility 1980 g/L @ 20 °C No data available

Partition coefficient; n-octanol/water

**Autoignition Temperature Decomposition Temperature** No information available

**Viscosity** Not applicable **Molecular Formula** Cl2 Mn . 4 H2 O

**Molecular Weight** 197.91

10. Stability and reactivity

**Reactive Hazard** None known, based on information available

Stability Stable under normal conditions. Hygroscopic.

**Conditions to Avoid** Avoid dust formation. Incompatible products. Excess heat. Exposure to moisture.

**Incompatible Materials** Strong acids, Metals

Hazardous Decomposition Products Hydrogen chloride gas, Heavy metal oxides

**Hazardous Polymerization** Hazardous polymerization does not occur.

**Hazardous Reactions** None under normal processing.

11. Toxicological information

**Acute Toxicity** 

**Product Information Component Information** 

Component LD50 Oral **LD50 Dermal** LC50 Inhalation Manganous chloride tetrahydrate LD50 = 1484 mg/kg (Rat)Not listed Not listed

Manganese(II) chloride 250 mg/kg (Rat) Not listed Not listed

1031 mg/kg (Mouse) **Toxicologically Synergistic** No information available

**Products** 

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation Severe eye irritant

Sensitization No information available

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

CAS-No IARC NTP **ACGIH OSHA** Component Mexico Manganous chloride 13446-34-9 Not listed Not listed Not listed Not listed Not listed tetrahydrate Manganese(II) chloride 7773-01-5 Not listed Not listed Not listed Not listed Not listed

Mutagenic Effects No information available

**Reproductive Effects** No information available.

**Developmental Effects** No information available.

**Teratogenicity** No information available.

STOT - single exposure None known STOT - repeated exposure Brain

Aspiration hazard No information available

Symptoms / effects,both acute and No information available

delayed

**Endocrine Disruptor Information** No information available

Other Adverse Effects The toxico@io Td(a) Tj 1

## Manganese(II) chloride tetrahydrate

Hazard Class 9
Packing Group III

**TDG** 

UN-No UN3077

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Hazard Class 9
Packing Group III

<u>IATA</u>

UN-No UN3077

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Hazard Class 9
Packing Group III

IMDG/IMO

UN-No UN3077

**Proper Shipping Name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Hazard Class 9
Packing Group III

# 15. Regulatory information

All of the components in the product are on the following Inventory lists: X = listed

**International Inventories** 

Component TSCA DSL NDSL EINECS ELINCS

#### Clean Air Act

| Component                       | HAPS Data | Class 1 Ozone Depletors | Class 2 Ozone Depletors |
|---------------------------------|-----------|-------------------------|-------------------------|
| Manganous chloride tetrahydrate | X         |                         | -                       |
| Manganese(II) chloride          | X         |                         | -                       |

**OSHA** Occupational Safety and Health Administration

Not applicable

**CERCLA** 

Not applicable

**California Proposition 65** 

This product does not contain any Proposition 65 chemicals

### U.S. State Right-to-Know

Regulations

| Component              | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|------------------------|---------------|------------|--------------|----------|--------------|
| Manganous chloride     | -             | X          | X            | X        | -            |
| tetrahydrate           |               |            |              |          |              |
| Manganese(II) chloride | -             | X          | X            | X        | -            |

## **U.S. Department of Transportation**

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

### **U.S. Department of Homeland Security**

This product does not contain any DHS chemicals.

#### Other International Regulations

Mexico - Grade No information available

| 16. Other information |
|-----------------------|
|-----------------------|

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Revision Summary

This document has been updated to comply with the US OSHA HazCom 2012 Standard

replacing the current legislation under 29 CFR 1910.1200 to align with the Globally

Harmonized System of Classification and Labeling of Chemicals (GHS).

## Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

## **End of SDS**