



## Safety Data Sheet

acc. to OSHA HCS

Printing date 10/28/2025

Reviewed on 12/14/2022

### 1 Identification

- **Product identifier**
- **Trade name:** MANGANESE CHLORIDE 2.0% in petrolatum
- **Article number:** M-031
- **Application of the substance / the mixture** Diagnosis of contact allergy
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Chemotechnique MB Diagnostics AB  
Modemgatan 9  
235 39 VELLINGE  
SWEDEN
- **Information department:** Product safety department.
- **Emergency telephone number:**  
8.00 to 16.00 (CET): +46 (0)40 466 077  
Local emergency services during non-office hours

### 2 Hazard(s) identification

- **Classification of the substance or mixture**

Germ Cell Mutagenicity 2	H341 Suspected of causing genetic defects.
Toxic to Reproduction 1B	H360 May damage fertility or the unborn child.
Specific Target Organ Toxicity - Repeated Exposure 1	H372 Causes damage to organs through prolonged or repeated exposure.

- **Label elements**
- **GHS label elements**  
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS08

- **Signal word** Danger
- **Hazard-determining components of labeling:**  
manganese dichloride

(Contd. on page 2)



**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 10/28/2025

Reviewed on 12/14/2022

**Trade name: MANGANESE CHLORIDE 2.0% in petrolatum**

(Contd. of page 1)

· **Hazard statements**

- Suspected of causing genetic defects.
- May damage fertility or the unborn child.
- Causes damage to organs through prolonged or repeated exposure.

· **Precautionary statements**

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Do not breathe dust/fume/gas/mist/vapors/spray.
- Wash thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Wear protective gloves/protective clothing/eye protection/face protection.
- IF exposed or concerned: Get medical advice/attention.
- Get medical advice/attention if you feel unwell.
- Store locked up.
- Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 0  
Fire = 1  
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = \*0  
Fire = 1  
Reactivity = 0

· **Other hazards**

· **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

**3 Composition/information on ingredients**

· **Chemical characterization: Mixtures**

- **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

7773-01-5	manganese dichloride	2.0%
-----------	----------------------	------

(Contd. on page 3)



## Safety Data Sheet

acc. to OSHA HCS

Printing date 10/28/2025

Reviewed on 12/14/2022

Trade name: **MANGANESE CHLORIDE 2.0% in petrolatum**

(Contd. of page 2)

· **Non-hazardous ingredients**

8009-03-8	Petrolatum	98.0%
-----------	------------	-------

### 4 First-aid measures

· **Description of first aid measures**

· **General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:** Generally the product does not irritate the skin.

· **After eye contact:** Rinse opened eye for several minutes under running water.

· **After swallowing:** If symptoms persist consult doctor.

· **Information for doctor:**

· **Most important symptoms and effects, both acute and delayed**

No further relevant information available.

· **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

### 5 Fire-fighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.

· **Special hazards arising from the substance or mixture**

During heating or in case of fire poisonous gases are produced.

· **Advice for firefighters**

· **Protective equipment:** Mouth respiratory protective device.

### 6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**

Mount respiratory protective device.

· **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

· **Methods and material for containment and cleaning up:**

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

(Contd. on page 4)



**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 10/28/2025

Reviewed on 12/14/2022

**Trade name: MANGANESE CHLORIDE 2.0% in petrolatum**

(Contd. of page 3)

· **Reference to other sections**

- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

· **Protective Action Criteria for Chemicals**

· **PAC-1:**

7773-01-5	manganese dichloride	6.9 mg/m <sup>3</sup>
-----------	----------------------	-----------------------

· **PAC-2:**

7773-01-5	manganese dichloride	11 mg/m <sup>3</sup>
-----------	----------------------	----------------------

· **PAC-3:**

7773-01-5	manganese dichloride	170 mg/m <sup>3</sup>
-----------	----------------------	-----------------------

**7 Handling and storage**

· **Handling:**

· **Precautions for safe handling**

- Ensure good ventilation/exhaustion at the workplace.
- Open and handle receptacle with care.
- FOR EXTERNAL/TOPICAL USE ONLY.

· **Information about protection against explosions and fires:**

- Keep respiratory protective device available.

· **Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

- Store at temperatures between 2 °C and 8 °C

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:**

- Keep receptacle tightly sealed.
- Protect from sunlight.

· **Specific end use(s)** No further relevant information available.

**8 Exposure controls/personal protection**

· **Additional information about design of technical systems:** No further data; see section 7.

(Contd. on page 5)



**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 10/28/2025

Reviewed on 12/14/2022

**Trade name: MANGANESE CHLORIDE 2.0% in petrolatum**

(Contd. of page 4)

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

**7773-01-5 manganese dichloride**

PEL	Ceiling limit value: 5 mg/m <sup>3</sup> as Mn
REL	Short-term value: 3 mg/m <sup>3</sup> Long-term value: 1 mg/m <sup>3</sup> as Mn
TLV	Long-term value: 0.02* 0.1** mg/m <sup>3</sup> as Mn; A4, *respirable **inhalable fraction

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.  
Wash hands before breaks and at the end of work.  
Store protective clothing separately.

· **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

(Contd. on page 6)



**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 10/28/2025

Reviewed on 12/14/2022

**Trade name: MANGANESE CHLORIDE 2.0% in petrolatum**

(Contd. of page 5)

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

**9 Physical and chemical properties**

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form: Solidified mass

Color: Pink

· **Odor:** undistinguishable

· **Odor threshold:** Not determined.

· **pH-value:** Not applicable.

· **Change in condition**

Melting point/Melting range: 51.6–57.2 °C (124.9–135 °F)

Boiling point/Boiling range: 359–732 °C (678.2–1,349.6 °F)

· **Flash point:** 259–277 °C (498.2–530.6 °F)

· **Flammability:** Not determined.

· **Auto igniting:** >290 °C (>554 °F)

· **Decomposition temperature:** Not determined.

· **Ignition temperature:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Explosion limits:**

Lower: Not determined.

Upper: Not determined.

· **Vapor pressure at 20 °C (68 °F):** <0.013 hPa (<0 mm Hg)

(Contd. on page 7)



**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 10/28/2025

Reviewed on 12/14/2022

**Trade name: MANGANESE CHLORIDE 2.0% in petrolatum**

(Contd. of page 6)

· <b>Density at 20 °C (68 °F):</b>	0.9122 g/cm <sup>3</sup> (7.61231 lbs/gal)
· <b>Relative density</b>	Not determined.
· <b>Vapor density</b>	Not applicable.
· <b>Evaporation rate</b>	Not applicable.

· <b>Solubility in / Miscibility with Water:</b>	Insoluble.
--------------------------------------------------	------------

· **Partition coefficient (n-octanol/water):** 0.77815

· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not applicable.
<b>Kinematic:</b>	Not applicable.

· <b>Solvent content:</b>	
<b>VOC content:</b>	0.00 %

<b>Solids content:</b>	100.0 %
------------------------	---------

· <b>Other information</b>	No further relevant information available.
----------------------------	--------------------------------------------

## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

**ATE (Acute Toxicity Estimate)**

Oral	LD50	85,750 mg/kg (mouse)
------	------	----------------------

(Contd. on page 8)



**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 10/28/2025

Reviewed on 12/14/2022

**Trade name: MANGANESE CHLORIDE 2.0% in petrolatum**

(Contd. of page 7)

**7773-01-5 manganese dichloride**

Oral	LD50	1,715 mg/kg (mouse)
------	------	---------------------

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

**12 Ecological information**

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**

- **General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

(Contd. on page 9)



**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 10/28/2025

Reviewed on 12/14/2022

**Trade name: MANGANESE CHLORIDE 2.0% in petrolatum**

(Contd. of page 8)

· **Other adverse effects** No further relevant information available.

**13 Disposal considerations**

· **Waste treatment methods**

· **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

**14 Transport information**

· **UN-Number**

· **DOT, IMDG, IATA** not regulated

· **UN proper shipping name**

· **DOT, IMDG, IATA** not regulated

· **Transport hazard class(es)**

· **DOT, ADN, IMDG, IATA**

· **Class** not regulated

· **Packing group**

· **DOT, IMDG, IATA** not regulated

· **Environmental hazards:** Not applicable.

· **Special precautions for user** Not applicable.

· **Transport in bulk according to Annex II of**

**MARPOL73/78 and the IBC Code** Not applicable.

· **UN "Model Regulation":** not regulated

US

(Contd. on page 10)



**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 10/28/2025

Reviewed on 12/14/2022

**Trade name: MANGANESE CHLORIDE 2.0% in petrolatum**

(Contd. of page 9)

**15 Regulatory information**

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

No further relevant information available.

· **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

7773-01-5 manganese dichloride

· **TSCA (Toxic Substances Control Act):**

7773-01-5 manganese dichloride

ACTIVE

· **Hazardous Air Pollutants**

7773-01-5 manganese dichloride

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

7773-01-5 manganese dichloride

D

· **TLV (Threshold Limit Value)**

None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

(Contd. on page 11)



## Safety Data Sheet

acc. to OSHA HCS

Printing date 10/28/2025

Reviewed on 12/14/2022

Trade name: **MANGANESE CHLORIDE 2.0% in petrolatum**

(Contd. of page 10)

· **Hazard pictograms**



GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**

manganese dichloride

· **Hazard statements**

Suspected of causing genetic defects.

May damage fertility or the unborn child.

Causes damage to organs through prolonged or repeated exposure.

· **Precautionary statements**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

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

Wash thoroughly after handling.

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

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

IF exposed or concerned: Get medical advice/attention.

Get medical advice/attention if you feel unwell.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing SDS:** Product safety department.

· **Contact:** -

· **Date of preparation / last revision** 12/14/2022 / 4.0

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

(Contd. on page 12)



**Safety Data Sheet**  
**acc. to OSHA HCS**

Printing date 10/28/2025

Reviewed on 12/14/2022

**Trade name: MANGANESE CHLORIDE 2.0% in petrolatum**

(Contd. of page 11)

EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
NFPA: National Fire Protection Association (USA)  
HMIS: Hazardous Materials Identification System (USA)  
VOC: Volatile Organic Compounds (USA, EU)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
NIOSH: National Institute for Occupational Safety  
OSHA: Occupational Safety & Health  
TLV: Threshold Limit Value  
PEL: Permissible Exposure Limit  
REL: Recommended Exposure Limit  
Germ Cell Mutagenicity 2: Germ cell mutagenicity – Category 2  
Toxic to Reproduction 1B: Reproductive toxicity – Category 1B  
Specific Target Organ Toxicity - Repeated Exposure 1: Specific target organ toxicity (repeated exposure) – Category 1

US