



SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006 Version 6.4 Revision Date 12.10.2022 Print Date 02.11.2022 GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1	Product identifiers Product name	:	Manganese Cell Test Method: photometric 0.10 - 5.00 mg/l Mn Spectroquant®
	Product Number Catalogue No. Brand REACH No.	:	1.00816 100816 Millipore This product is a mixture. REACH Registration Number see section 3.
1.2	Relevant identified us	es	of the substance or mixture and uses advised against
	Identified uses	:	Reagent for analysis
1.3	Details of the supplier	of	the safety data sheet
	Company	:	Merck KGaA

Frankfurter Str. 250 D-64271 DARMSTADT

+49 (0)6151 72-0

+49 6151 727780

:

:

:

This is a summary SDS for a kit. For the full SDS for each of the components listed in section 16 please visit our website.

TechnicalService@merckgroup.com

: +(44)-870-8200418 (CHEMTREC (GB))

+(353)-19014670 (CHEMTREC Ireland) 001-803-017-9114 (CHEMTREC India)

#### SECTION 2: Hazards identification

Telephone

E-mail address

**Emergency telephone** 

Emergency Phone #

Fax

1.4

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 Corrosive to Metals (Category 1), H290 Acute toxicity, Oral (Category 3), H301 Skin corrosion (Sub-category 1B), H314 Serious eye damage (Category 1), H318 Skin sensitization (Category 1), H317 Germ cell mutagenicity (Category 2), H341 Carcinogenicity (Category 1B), H350 Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

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Specific target organ toxicity - repeated exposure, Oral (Category 2), spleen, H373 Short-term (acute) aquatic hazard (Category 1), H400 Long-term (chronic) aquatic hazard (Category 3), H412

For the full text of the H-Statements mentioned in this Section, see Section 16.

Labelling according Regulation (EC) No 1272/2008

#### 2.2 Label elements

Pictogram	
Signal Word	Danger
Hazard statement(s) H290 H301 H314 H317 H335 H341 H350	May be corrosive to metals. Toxic if swallowed. Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause respiratory irritation. Suspected of causing genetic defects. May cause cancer.
H373	May cause damage to organs (spleen) through prolonged or repeated exposure if swallowed.
H410	Very toxic to aquatic life with long lasting effects.
Precautionary statement(s) P202	Do not handle until all safety precautions have been read and understood.
P273 P280	Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Supplemental Hazard Statements	none

#### Reduced Labeling (<= 125 ml)

Pictogram

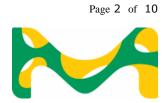
Signal Word	Danger
Hazard statement(s)	
H301	Toxic if swallowed.
H317	May cause an allergic skin reaction.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H314	Causes severe skin burns and eye damage.
Dreasutionsmy statement(s)	

Precautionary statement(s) P202

Do not handle until all safety precautions have been read and

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P280	understood. Wear protective gloves/ protective clothing/ eye protection/ face protection.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Supplemental Hazard Statements	none

2.3 Other hazards - none

#### **SECTION 3: Composition/information on ingredients**

Refer to component SDS

### **SECTION 4: First aid measures**

Refer to component SDS

#### **SECTION 5: Firefighting measures**

Refer to component SDS

# **SECTION 6: Accidental release measures**

Refer to component SDS

#### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

# Advice on safe handling

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

#### **Hygiene measures**

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2.

#### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

No metal containers.

Tightly closed. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

Recommended storage temperature see product label.

#### Storage class

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Storage class (TRGS 510): 6.1C: Combustible, acute toxic Cat.3 / toxic compounds or compounds which causing chronic effects

#### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

#### SECTION 8: Exposure controls/personal protection

Refer to component SDS

### **SECTION 9: Physical and chemical properties**

Refer to component SDS

# **SECTION 10: Stability and reactivity**

Refer to component SDS

### **SECTION 11: Toxicological information**

Refer to component SDS

#### **SECTION 12: Ecological information**

Refer to component SDS

#### **SECTION 13: Disposal considerations**

Refer to component SDS

#### **SECTION 14: Transport information** 14.1 UN number ADR/RID: 3316 IMDG: 3316 IATA: 3316 14.2 UN proper shipping name ADR/RID: CHEMICAL KIT IMDG: CHEMICAL KIT IATA: Chemical kit 14.3 Transport hazard class(es) IATA: 9 ADR/RID: 9 IMDG: 9 14.4 Packaging group ADR/RID: II IMDG: II IATA: II 14.5 Environmental hazards ADR/RID: no IMDG Marine pollutant: no IATA: no 14.6 Special precautions for user No data available

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# SECTION 15: Regulatory information

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

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

Refer to component SDS

# **15.2 Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out

# **SECTION 16: Other information**

Kit Components:			
Mn	Millipore	221148	Acute Tox. 3; Skin Corr. 1B; Eye Dam. 1; STOT SE 3; Aquatic Acute 1; Aquatic Chronic 3; H301, H314, H335, H410
Mn-1K	Millipore	219198	Met. Corr. 1; Skin Irrit. 2; Eye Irrit. 2; Skin Sens. 1; Muta. 2; Carc. 1B; Aquatic Acute 1; H290, H315, H317, H319, H341, H350, H400
Mn-2K	Millipore	221149	Met. Corr. 1; Skin Irrit. 2; Eye Irrit. 2; Skin Sens. 1; Carc. 2; STOT RE 2; Aquatic Acute 1; H290, H315, H317, H319, H351, H373, H400

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#### Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM -American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS -Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. -Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIOC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS -Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

#### **Classification of the mixture**

#### **Classification procedure:**

		•
Met. Corr.1	H290	Calculation method
Acute Tox.3	H301	Calculation method
Skin Corr.1B	H314	Calculation method
Eye Dam.1	H318	Calculation method
Skin Sens.1	H317	Calculation method
Muta.2	H341	Calculation method
Carc.1B	H350	Calculation method
STOT SE3	H335	Calculation method
STOT RE2	H373	Calculation method
Aquatic Acute1	H400	Calculation method
Aquatic Chronic3	H412	Calculation method



#### Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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# **Kit Components:**

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Mn					
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier	-	Word	Statements	Statements	information
Millipore - 221148		Vord Danger	Statements   Toxic if   swallowed.   Causes severe   skin burns and   eye damage.   May cause   respiratory   irritation.   Very toxic to   aquatic life with   long lasting   effects.	StatementsAvoid breathing dust/ fume/ gas/ mist/ vapors/ spray.IF ON SKIN (or hair): Take off immediately all contaminated 	

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Mn-1K					
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Millipore - 219198		Danger	May be corrosive to metals. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Suspected of causing genetic defects. May cause cancer. Very toxic to aquatic life.	Obtain special instructions before use. IF ON SKIN: Wash with plenty of water. Avoid release to the environment. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Wear protective gloves/ protective clothing/ eye protection. IF exposed or concerned: Get medical advice/ attention.	

Mn-2K					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Millipore - 221149		Warning	May be corrosive to metals. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Suspected of causing cancer. May cause damage to organs (spleen) through prolonged or repeated exposure if	Do not handle until all safety precautions have been read and understood. IF ON SKIN: Wash with plenty of water. Avoid release to the environment. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.	

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	swallowed. Very toxic to aquatic life.	Continue rinsing. Wear protective gloves/ protective clothing/ eye protection/ face protection. IF exposed or concerned: Get medical advice/ attention.	
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