

SAFETY DATA SHEET

Version 6.3 Revision Date 09/18/2021 Print Date 10/08/2022

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

1.1 Product identifiers

Product name : Manganese(II) chloride

Product Number : 416479
Brand : Aldrich
CAS-No. : 7773-01-5

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.

3050 SPRUCE ST ST. LOUIS MO 63103 UNITED STATES

Telephone : +1 314 771-5765 Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone #: 800-424-9300 CHEMTREC (USA) +1-703-

527-3887 CHEMTREC (International) 24

Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral (Category 3), H301 Serious eye damage (Category 1), H318

Specific target organ toxicity - repeated exposure (Category 2), Brain, H373

Specific target organ toxicity - repeated exposure, Inhalation (Category 2), Brain, H373 Specific target organ toxicity - repeated exposure, Inhalation (Category 2), Brain, H373

Short-term (acute) aquatic hazard (Category 2), H401 Long-term (chronic) aquatic hazard (Category 2), H411

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

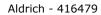
2.2 GHS Label elements, including precautionary statements

Pictogram





Signal word	Danger
Hazard statement(s)	
H301	Toxic if swallowed.
H318	Causes serious eye damage.
H373	May cause damage to organs (Brain) through prolonged or
11272	repeated exposure.
H373	May cause damage to organs (Brain) through prolonged or
H411	repeated exposure if inhaled. Toxic to aquatic life with long lasting effects.
11411	Toxic to aquatic life with long lasting effects.
Precautionary statement(s)	
P260	Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear eye protection/ face protection.
P301 + P310 + P330	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P305 + P351 + P338 +	Rinse mouth.
P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue
P310	rinsing. Immediately call a POISON CENTER/ doctor.
P314	Get medical advice/ attention if you feel unwell.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal
	plant.
Pictogram	
Pictogram Signal word	Danger
Signal word	Danger
-	Danger Toxic if swallowed.
Signal word Hazard statement(s)	
Signal word Hazard statement(s) H301	Toxic if swallowed.
Signal word Hazard statement(s) H301 H318	Toxic if swallowed. Causes serious eye damage.
Signal word Hazard statement(s) H301 H318	Toxic if swallowed. Causes serious eye damage. May cause damage to organs (Brain) through prolonged or
Signal word Hazard statement(s) H301 H318 H373	Toxic if swallowed. Causes serious eye damage. May cause damage to organs (Brain) through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.
Signal word Hazard statement(s) H301 H318 H373	Toxic if swallowed. Causes serious eye damage. May cause damage to organs (Brain) through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.
Signal word Hazard statement(s) H301 H318 H373 H411 Precautionary statement(s)	Toxic if swallowed. Causes serious eye damage. May cause damage to organs (Brain) through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.
Signal word Hazard statement(s) H301 H318 H373 H411 Precautionary statement(s) P260	Toxic if swallowed. Causes serious eye damage. May cause damage to organs (Brain) through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
Signal word Hazard statement(s) H301 H318 H373 H411 Precautionary statement(s) P260 P264 P270 P273	Toxic if swallowed. Causes serious eye damage. May cause damage to organs (Brain) through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Wash skin thoroughly after handling.
Signal word Hazard statement(s) H301 H318 H373 H411 Precautionary statement(s) P260 P264 P270 P273 P280	Toxic if swallowed. Causes serious eye damage. May cause damage to organs (Brain) through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear eye protection/ face protection.
Signal word Hazard statement(s) H301 H318 H373 H411 Precautionary statement(s) P260 P264 P270 P273	Toxic if swallowed. Causes serious eye damage. May cause damage to organs (Brain) through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear eye protection/ face protection. IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
Signal word Hazard statement(s) H301 H318 H373 H411 Precautionary statement(s) P260 P264 P270 P273 P280 P301 + P310 + P330	Toxic if swallowed. Causes serious eye damage. May cause damage to organs (Brain) through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear eye protection/ face protection. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth.
Signal word Hazard statement(s) H301 H318 H373 H411 Precautionary statement(s) P260 P264 P270 P273 P280 P301 + P310 + P330 P305 + P351 + P338 +	Toxic if swallowed. Causes serious eye damage. May cause damage to organs (Brain) through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear eye protection/ face protection. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth. IF IN EYES: Rinse cautiously with water for several minutes.
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Signal word Hazard statement(s) H301 H318 H373 H411 Precautionary statement(s) P260 P264 P270 P273 P280 P301 + P310 + P330 P305 + P351 + P338 + P310 P314	Toxic if swallowed. Causes serious eye damage. May cause damage to organs (Brain) through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear eye protection/ face protection. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth. 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/ doctor. Get medical advice/ attention if you feel unwell.
Signal word Hazard statement(s) H301 H318 H373 H411 Precautionary statement(s) P260 P264 P270 P273 P280 P301 + P310 + P330 P305 + P351 + P338 + P310 P314 P391	Toxic if swallowed. Causes serious eye damage. May cause damage to organs (Brain) through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear eye protection/ face protection. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth. 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/ doctor. Get medical advice/ attention if you feel unwell. Collect spillage.
Signal word Hazard statement(s) H301 H318 H373 H411 Precautionary statement(s) P260 P264 P270 P273 P280 P301 + P310 + P330 P305 + P351 + P338 + P310 P314 P391 P405	Toxic if swallowed. Causes serious eye damage. May cause damage to organs (Brain) through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear eye protection/ face protection. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth. 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/ doctor. Get medical advice/ attention if you feel unwell. Collect spillage. Store locked up.
Signal word Hazard statement(s) H301 H318 H373 H411 Precautionary statement(s) P260 P264 P270 P273 P280 P301 + P310 + P330 P305 + P351 + P338 + P310 P314 P391	Toxic if swallowed. Causes serious eye damage. May cause damage to organs (Brain) through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear eye protection/ face protection. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth. 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/ doctor. Get medical advice/ attention if you feel unwell. Collect spillage.





2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3: Composition/information on ingredients

3.1 Substances

Formula : Cl₂Mn

Molecular weight : 125.84 g/mol CAS-No. : 7773-01-5

Component	Classification	Concentration
manganese(II) chloride		
	Acute Tox. 3; Eye Dam. 1;	<= 100 %
	STOT RE 2; Aquatic Acute	
	2; Aquatic Chronic 2;	
	H301, H318, H373, H373,	
	H401, H411	

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

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice

Consult a physician. Show this material safety data sheet to the doctor in attendance. Move out of dangerous area.

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. Take victim immediately to hospital. 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.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed No data available

Millipore

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

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

5.2 Special hazards arising from the substance or mixture

Hydrogen chloride gas

Manganese/manganese oxides

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 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.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. **Advice on safe handling**

Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.

Advice on protection against fire and explosion

Provide appropriate exhaust ventilation at places where dust is formed.

Hygiene measures

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions



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

Store under inert gas. Moisture sensitive.

Storage class

Storage class (TRGS 510): 6.1D: Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials 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

8.1 Control parameters

Ingredients with workplace control parameters

Ingredients with	Workplace	control par	unice: 5	
Component	CAS-No.	Value	Control parameters	Basis
manganese(II) chloride	7773-01-5	С	5 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	0.1 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Not classifiable as a human carcinogen		
		TWA	0.02 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Not classifiable as a human carcinogen		
		С	5 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		TWA	1 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	3 mg/m3	USA. NIOSH Recommended Exposure Limits
		PEL	0.2 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)

8.2 Exposure controls

Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection

Face shield and safety glasses 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.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail

sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance Form: flakes

Color: light pinklight pink

b) Odorc) Odor Thresholddata availableNo data available

d) pH 5.5 at 25 g/l at 20 °C (68 °F)

e) Melting point/range: 652 °C (1206 °F) - lit.

point/freezing point

f) Initial boiling point 1,190 °C 2,174 °F at 1013 hPa and boiling range 1,190 °C (2,174 °F) at 1013 hPa

g) Flash point ()No data available

h) Evaporation rate No data available

i) Flammability (solid, The product is not flammable.

gas)

j) Upper/lower No data available

flammability or explosive limits

k) Vapor pressure No data availablel) Vapor density No data available

m) Density 2.98 g/mL at 25 °C (77 °F) - lit.

Relative density No data available

n) Water solubility 757 g/l at 20 °C (68 °F)757 g/l at 20 °C (68 °F)

o) Partition coefficient: No data available

n-octanol/water

p) Autoignition No data available temperature

q) Decomposition No data available

r) Viscosity No data availables) Explosive properties No data available

t) Oxidizing properties none

9.2 Other safety information

temperature

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Avoid moisture.

10.5 Incompatible materials

Zinc, Sodium/sodium oxides, Potassium, Strong acids, Hydrogen peroxide

10.6 Hazardous decomposition products

In the event of fire: see section 5



SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Mouse - male - 1,330 mg/kg LD50 Oral - Rat - female - 236 mg/kg

Inhalation: No data available Dermal: No data available

No data available

Skin corrosion/irritation

Skin - Rabbit

Result: No skin irritation - 4 h (OECD Test Guideline 404)

Serious eye damage/eye irritation

Eyes - Rabbit Result: irritating

(OECD Test Guideline 405)

Respiratory or skin sensitization

Local lymph node assay (LLNA) - Mouse

Result: negative

(OECD Test Guideline 429)

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

Reproductive toxicity

No data available No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

May cause damage to organs through prolonged or repeated exposure. - Brain

Aspiration hazard

No data available

11.2 Additional Information

RTECS: 009625000

Men exposed to manganese dusts showed a decrease in fertility. Chronic manganese poisoning primarily involves the central nervous system. Early symptoms include languor, sleepiness and weakness in the legs. A stolid mask-like appearance of the face, emotional disturbances such as uncontrollable laughter and a spastic gait with tendency to fall in walking are findings in more advanced cases. High incidence of pneumonia has been found



in workers exposed to the dust or fume of some manganese compounds., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to daphnia EC50 - Daphnia magna (Water flea) - 9.8 mg/l - 48 h

and other aquatic invertebrates

Toxicity to algae Growth inhibition EC50 - Pseudokirchneriella subcapitata - 3.83 mg/l

- 72 h

(OECD Test Guideline 201)

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Toxic to aquatic life with long lasting effects.

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

DOT (US)

UN number: 3288 Class: 6.1 Packing group: III

Proper shipping name: Toxic solid, inorganic, n.o.s. (manganese(II) chloride)

Reportable Quantity (RQ):

Aldrich - 416479

Millipore SigMa Poison Inhalation Hazard: No

IMDG

UN number: 3288 Class: 6.1 Packing group: III EMS-No: F-A, S-A Proper shipping name: TOXIC SOLID, INORGANIC, N.O.S. (manganese(II) chloride)

Marine pollutant : yes

IATA

UN number: 3288 Class: 6.1 Packing group: III

Proper shipping name: Toxic solid, inorganic, n.o.s. (manganese(II) chloride)

SECTION 15: Regulatory information

SARA 302 Components

This material does not contain any components with a section 302 EHS TPQ.

SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313:

manganese(II) chloride CAS-No. Revision Date 2015-07-08

SARA 311/312 Hazards

Acute Health Hazard

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

manganese(II) chloride CAS-No. Revision Date

7773-01-5 2015-07-08

SECTION 16: Other information

Further information

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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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