

	Manganese(I	I) Chloride	Monohydrate	Pricing >
Linear Formula MnCl ₂ • H ₂ O)		
		16211237		
MDL Number		MFCD00149793		
EC No.		613-575-3		
IUPAC Name		dichloromanganese; hydrate		
Beilstein/Reaxys No.		N/A		
SMILES		O.CI[Mn]Cl		
Inchl Identifier		InChI=1S/2CIH.Mn.H2O/h2*1H;;1H2/q;;+2;/p-2		
I	nchl Key	BXRRQHBNBXJZBQ-UHFFFAOYSA-L		
	Signal Word		Warning	
	Hazard Statements		N/A	
	Hazard Codes		N/A	
	Precautionary Statements		N/A	
	Flash Point Risk Codes		Not applicable	
			N/A	
	Safety Statements		N/A	
	RTECS Number		N/A	
	Transport Information		NONH for all modes of transport	
	WGK Germany		1	
	GHS Pictograms		GHS07 Exclamation Point ()	

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SAFETY DATA SHEET

Date Accessed: 05/20/2024 Date Revised: 01/15/2022

SECTION 1. IDENTIFICATION

Product Identifiers: All applicable American Elements product codes for CAS #64333-01-3

Relevant identified uses of the substance:

Scientific research and development

Supplier details: American Elements 10884 Weyburn Ave. Los Angeles, CA 90024 Tel: +1 310-208-0551 Fax: +1 310-208-0351

Emergency telephone number: Domestic, North America +1 800-424-9300 International +1 703-527-3887

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixtureGHS Classification in accordance with 29 CFR 1910 (OSHA HCS)Acute toxicity, Oral (Category 4), H302

2.2 GHS Label elements, including precautionary statements Pictogram



Signal word Warning Hazard statement(s) H302 Harmful if swallowed. Precautionary statement(s) P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth. P501 Dispose of contents/ container to an approved waste disposal plant. 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3. COMPOSITION/INFORMATION

ON INGREDIENTS

3.1 Substances Chemical characterization : Product does not burn Formula : Cl2Mn H2O Molecular weight : 143.86 g/mol CAS-No. : 64333-01-3 EC-No. : 231-869-6 Hazardous components Component Classification Concentration Manganese dichloride monohydrate Acute Tox. 4; H302 <= 100 %

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures General advice Consult a physician. Show this 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. Consult a physician. In case of eye contact Flush eyes with water as a precaution. 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

SECTION 5. FIREFIGHTING MEASURES

5.1 Extinguishing media
Suitable extinguishing media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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 The product itself does not burn.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid dust formation. Avoid breathing Vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust. For personal protection see section 8. 6.2 Environmental precautions Do not let product enter drains. 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 Avoid contact with skin and eyes. Avoid formation of dust and aerosols.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. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2. 7.2 Conditions for safe storage, including any incompatibilities Keep container tightly closed in a dry and wellventilated place. Storage class (TRGS 510): Non Combustible Solids 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 Components with workplace control parameters Component CAS-No. Value Control parameters Basis Manganese dichloride monohydrate 64333-01-3 C 5.000000 mg/m3 USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants Remarks Ceiling limit is to be determined from breathing-zone air samples. TWA 0.200000 mg/m3 USA. ACGIH Threshold Limit Values (TLV) Central Nervous System impairment Adopted values or notations enclosed are those for which changes are proposed in the NIC See Notice of Intended Changes (NIC) varies TWA 1.000000 mg/m3 **USA. NIOSH Recommended** Exposure Limits ST 3.000000 mg/m3 USA. NIOSH Recommended Exposure Limits TWA 0.100000 mg/m3 USA. ACGIH Threshold Limit Values (TLV) Central Nervous System impairment 2014 Adoption varies TWA 0.020000 mg/m3 USA. ACGIH Threshold Limit Values (TLV) Central Nervous System impairment 2014 Adoption varies TWA 0.1 mg/m3 USA. ACGIH Threshold Limit Values (TLV) Central Nervous System impairment varies TWA 0.02 mg/m3 USA. ACGIH Threshold Limit Values

(TLV) Central Nervous System impairment varies 8.2 Exposure controls Appropriate engineering controls Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workdav. Personal protective equipment Eye/face protection Safety glasses with side-shields conforming to EN166 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. **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 For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. 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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties
a) Appearance Form: solid
Colour: pink
b) Odor odourless
c) Odor Threshold No data available
d) pH No data available

e) Melting point/freezing point No data available

f) Initial boiling point and boiling range No data

available

g) Flash point N/A

h) Evaporation rate No data available

i) Flammability (solid, gas) No data available

j) Upper/lower flammability or explosive limits No data available

k) Vapor pressure No data available

I) Vapor density No data available

m) Relative density No data available

n) Water solubility soluble

o) Partition coefficient: noctanol/water No data available

p) Auto-ignition temperature No data available

q) Decomposition temperature No data available

r) Viscosity No data available

s) Explosive properties No data available

t) Oxidizing properties No data available

9.2 Other safety information

Bulk density 800 g/l

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
No data available
10.5 Incompatible materials
Strong oxidizing agents, Zinc, Sodium/sodium oxides,
Potassium, Strong acids, Hydrogen peroxide
10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects Acute toxicity No data available Inhalation: No data available Dermal: No data available No data available Skin corrosion/irritation No data available Serious eye damage/eye irritation No data available Respiratory or skin sensitisation

No data available Germ cell mutagenicity Laboratory experiments have shown mutagenic effects. 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. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component 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 identified as a carcinogen or potential carcinogen by OSHA. Reproductive toxicity No data available Overexposure may cause reproductive disorder(s) based on tests with laboratory animals. Specific target organ toxicity - single exposure No data availableSpecific target organ toxicity repeated exposure No data available Aspiration hazard No data available Additional Information **RTECS:** Not available 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. Stomach - Irregularities - Based on Human Evidence Stomach - Irregularities - Based on Human Evidence

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity No data available 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

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.
Contaminated packaging
Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

DOT (US) Not dangerous goods IMDG Not dangerous goods IATA Not dangerous goods

SECTION 15. REGULATORY INFORMATION

SARA 302 Components No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. SARA 313 Components The following components are subject to reporting levels established by SARA Title III, Section 313: Manganese dichloride monohydrate 64333-01-3 2007-07-01 SARA 311/312 Hazards Acute Health Hazard, Chronic Health Hazard Massachusetts Right To Know Components No components are subject to the Massachusetts Right to Know Act. Pennsylvania Right To Know Components Manganese dichloride monohydrate CAS-No. 64333-01-3 Revision Date 2007-07-01 New Jersey Right To Know Components Manganese dichloride monohydrate CAS-No. 64333-01-3 Revision Date 2007-07-01 California Prop. 65 Components This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). 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. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.