

# **SAFETY DATA SHEET**

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

## 1.1 Product identifiers

Product name Manganese Chloride

CAS number 7773-01-05

Synonyms Manganese dichloride; Manganese(II) Chloride

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

Identified uses Laboratory chemicals.

# 1.3 Details of the supplier of the safety data sheet

Company Lab Alley, LLC

12501 Pauls Valley Road Austin, Texas 78737

U.S.A.

Telephone 512-668-9918 Fax 512-886-4008

## 1.4 Emergency telephone

Emergency Phone # US & Canada: 1-800-535-5053 INFOTRAC

International 1-352-323-3500 INFOTRAC

## **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

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

Acute oral toxicity (Category 4)

Serious Eye Damage/Eye Irritation (Category 1)

Specific target organ toxicity - repeated exposure (Category 2)

Target organs - Kidney, Liver, Heart, Spleen, Blood

# 2.2 GHS Label elements, including precautionary statements

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Signal Word Danger

Hazard statements Harmful if swallowed.

Causes serious eye damage.

May cause damage to organs (Braint) through prolonged or repeated

exposure.

Precautionary Statements 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 Get medical attention/advice if you feel unwell

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 IF SWALLOWED: Immediately call a POISON CENTER or

doctor/physician Rinse mouth Store locked up

Dispose of contents/container to an approved waste disposal

# 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None.

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

# 3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Manganese chloride	Manganese dichloride, Manganese(II) chloride	7773-01-05	>98%

# **SECTION 4: First aid measures**

## 4.1 Description of first-aid measures

#### General advice

**If inhaled** Remove to fresh air. If not breathing, give artificial respiration. Do not use

mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical

attention is required.

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In case of skin contact Wash off immediately with plenty of water for at least 15 minutes. Immediate

medical attention is required.

In case of eye contact 
In the case of contact with eyes, rinse immediately with plenty of water and

seek medical advice.

If swallowed Do NOT induce vomiting. Call a physician or poison control center

immediately.

# 4.2 Most important symptoms and effects, both acute and delayed

Causes eye burns. Causes severe eye damage.

# 4.3 Indication of any immediate medical attention and special treatment needed

Note to Physician: Treat Symptomatically.

# **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media

Suitable extinguishing media Substance is nonflammable; use agent most

appropriate to extinguish surrounding fire.

**Unsuitable extinguishing media**No information available.

# 5.2 Specific hazards arising from the substance or mixture

Non-combustible. Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

## 5.3 Special 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. Thermal decomposition can lead to release of irritating gases and vapors.

#### 5.4 Further information

Flash Point No information available.

**Autoignition Temperature** No information available.

**Explosion limits** 

Upper No information available.Lower No information available.

Sensitivity to Mechanical Impact No information available.

Sensitivity to Static Discharge No information available.

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#### **NFPA**

Health	Flammability	Instability	Physical hazards
3	1	1	N/A

#### **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.

## 6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system.

## 6.3 Methods and materials for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

## 6.4 Reference to other sections

See section 2 for full list of hazard and precaution statements.

# **SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

#### Precautions on safe handling

Wear personal protective equipment/face protection. Avoid dust formation. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe (dust, vapor, mist, gas). Do not ingest. If swallowed then seek immediate medical assistance.

## Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

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

#### Storage conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Store under an inert atmosphere. Protect from moisture.

## Incompatibilities

Reducing Agent. Strong acids. Peroxides. Organic materials. Bases. Oxidizing agent.

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

## 8.1 Occupational exposure limits

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Component	Туре	Value	
Manganese Chloride	Ceiling	5 mg/m3	

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#### **US. ACGIH Threshold Limit Values**

Component	Туре	Value
Manganese Chloride	TWA	0.02 mg/m3
Manganese Chloride	TWA	0.1 mg/m3

#### **US. NIOSH: Pocket Guide to Chemical Hazards**

Component	Туре	Value
	IDLH	500 mg/m3
Manganese Chloride	TWA	1 mg/m3
	STEL	3 mg/m3

## **Biological occupational exposure limits**

No information available.

# 8.2 Exposure controls

#### Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Personal protective equipment

# Eye/face protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

#### **Skin protection**

Wear appropriate protective gloves.

## **Body Protection**

Wear appropriate clothing to prevent skin exposure.

#### 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.

#### 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

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Physical State Solid
Appearance Light red
Odor Odorless

Odor Threshold No information available. pH 5.5 25 g/L aq. sol. (20 °C)

Melting Point/Range 650 °C / 1202 °F Boiling Point/Range 1190 °C / 2174 °F Evaporation Rate Not applicable.

Flammability (solid) No information available.

Flammability or explosive limit

Upper No information available.
Lower No information available.
Vapor Pressure No information available.

Vapor Density Not applicable.

Density No information available.

Solubility Soluble in water.

Partition coefficient; n-octanol/water No information available.

Autoignition Temp No information available.

Decomposition Temp No information available.

Viscosity Not applicable.

Molecular Formula Cl2Mn Molecular Weight 125.84

VOC Content(%) No information available.

Oxidizing properties None.

# 9.2 Other safety information

No information available.

# **SECTION 10: Stability and reactivity**

## 10.1 Reactivity

None known, based on information available.

# 10.2 Chemical stability

Hygroscopic.

# 10.3 Possibility of hazardous reactions

None under normal processing.

#### 10.4 Conditions to avoid

Avoid dust formation. Incompatible products. Excess heat. Exposure to moist air or water.

# 10.5 Incompatible materials

Reducing Agent, Strong acids, Peroxides, Organic materials, Bases, Oxidizing agent.

## 10.6 Hazardous decomposition products

Chlorine, Hydrogen chloride gas.

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# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

# **Product Information, Component Information**

## **Acute toxicity**

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Manganese Chloride	236 mg/kg (rat)	Not listed	> 4.45 mg/L (rat)

#### Skin corrosion/irritation

No information available.

# Serious eye damage/eye irritation

Severe eye irritant.

## Respiratory or skin sensitization

No information available.

## Germ cell mutagenicity

Mutagenic effects have occurred in experimental animals.

## Carcinogenicity

- an anna garmana						
Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Manganese Chloride	7773-01-05	Not listed				

## Specific target organ toxicity - single exposure

None known.

## Specific target organ toxicity - repeated exposure

Kidney, Liver, Heart, Spleen, Blood

# Reproductive toxicity

No information available.

#### **Chronic effects**

No information available.

# 11.2 Additional Information

The toxicological properites have not been fully investigated.

# **SECTION 12: Ecological information**

# 12.1 Toxicity

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Product		Species	Test Results	
Manganese Chloride	LC50	Freshwater Fish	49.9 mg Mn/L	
	LC50	Water Flea	9.8 mg Mn/L 48 h	

# 12.2 Persistence and degradability

Persistence is unlikely.

## 12.3 Bio accumulative potential

No information available.

## 12.4 Mobility in soil

Will likely be mobile in the environment due to its water solubility.

#### 12.5 Results of PBT and vPvB assessment

No information available.

# 12.6 Endocrine disrupting properties

No information available.

#### 12.7 Other adverse effects

Avoid release to the environment.

## **SECTION 13: Disposal considerations**

# 13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

# **SECTION 14: Transport information**

DOT (US)

UN no. UN3288

Proper Shipping Name Toxic, solid, inorganic, n.o.s (manganese(II) chloride)

Hazard Class 6.1 Packing Group III

**IMDG** 

UN no. UN3288

Proper Shipping Name Toxic, solid, inorganic, n.o.s (manganese(II) chloride)

Hazard Class 6.1 Packing Group III

**IATA** 

UN no. UN3288

Proper Shipping Name Toxic, solid, inorganic, n.o.s (manganese(II) chloride)

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Hazard Class 6.1 Packing Group III

# **SECTION 15: Regulatory information**

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not listed.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Listed. See section 2 for more information.

SARA 313 (TRI reporting)

Listed. Weight: </= 100; Treshold Value: 1.0%

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

FEMA Priority Substances Respiratory Health and Safety in the Flavor

Manufacturing Workplace

Not listed.

**US** state regulations

**US. Massachusetts RTK - Substance List** 

Not listed.

**US. New Jersey Worker and Community Right-to-Know Act** 

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Listed.

# US. Pennsylvania Worker and Community Right-to-Know Law Listed.

# **California Proposition 65**

Not listed.

#### **SECTION 16: Other information**

Issue date: 09/10/2024

#### **SECTION 17: Disclaimer**

The information provided on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

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