

# 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 13446-34-9

Synonyms No information available.

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

Identified uses No information available.

## 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 toxicity (oral, dermal, inhalation)

Specific target organ toxicity - (repeated exposure)

Chronic hazards to the aquatic environment

Category 4

Category 2

Category 3

# 2.2 GHS Label elements, including precautionary statements

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Pictogram

statements



Signal Word Warning

Hazard statements Harmful if swallowed. May cause damage to organs through prolonged

or repeated exposure. Harmful to aquatic life with long lasting effects.

Precautionary Wash thoroughly after handling. Do not eat, drink or smoke when using

this product. Avoid release to the environment. Do not breathe

dust/fume/gas/mist/vapors/spray. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Get

medical advice/attention if you feel unwell. Collect spillage.

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

May form combustible dust concentrations in air (during processing).

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

## 3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Manganese chloride	-	13446-34-9	100%

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

### 4.1 Description of first-aid measures

#### General advice

**If inhaled** Loosen clothing as necessary and position individual in a comfortable position.

Remove to fresh air. Give artificial respiration if necessary. If breahting is difficult

give oxygen. Consult a physician.

In case of skin contact Wash hands and exposed skin with soap and plenty of water. Consult a

physician.

In case of eye contact Protect unexposed eyes. Rinse or flush exposed eye gently using water for 15-20

minutes. Remove contact lenses while rinsing. Seek medical attention if irritation

persists or if concerned.

**If swallowed** Rinse mouth thoroughly. Never give anything by mouth to an unconscous person.

Consult a physician.

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

Shortness of breath. Irritation. Nausea. Headache.

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

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If seeking medical attention provide SDS document to physician.

## **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to

local circumstances and the surrounding

environment.

**Unsuitable extinguishing media**No information available.

## 5.2 Specific hazards arising from the substance or mixture

Hydrogen chloride gas. Managanese. Manganese oxides.

### 5.3 Special protective equipment and precautions for firefighters

Wear protective eyeware, gloves, and clothing. Refer to Section 8. Avoid generating dust. Avoid breathing vapors, mist, or gas.

#### 5.4 Further information

Flash Point No information available

Autoignition Temperature No information available

**Explosion limits** 

UpperNo data availableLowerNo data available

Sensitivity to Mechanical Impact
Sensitivity to Static Discharge
No information available

NFPA

Health	Flammability	Instability	Physical hazards
1	0	0	N/A

#### SECTION 6: Accidental release measures

# 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

## 6.2 Environmental precautions

Prevent from reaching drains, sewer, or waterway. If safe to do so prevent further leakage or spillage. Discharge into the environment must be avoided.

### 6.3 Methods and materials for containment and cleaning up

Follow Chemical Hygiene Plan. Pick up and arrange disposal without creating dust. Sweep up and containerize for disposal. Refer to Section 8. If necessary use trained response staff or contractor.

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### 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

Minimize dust generation and accumulation. Wash hands after handling. Provide appropriate exhaust ventilation at place where dust is formed. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Use only in well ventilated areas. Avoid contact with eyes, skin, and clothing.

### Hygiene measures

Avoid contact with skin, eyes and clothing. Wash hands and exposed skin with soap and plenty of water. Wash hands before breaks and immediately after handling the product. Do not inhaled gases, fumes, dust, mist, vapor, and aerosols. Do not eat, drink, smoke, or use personel products when handling chemical substances. Before wearing wash contaminated clothing.

## 7.2 Conditions for safe storage, including any incompatibilities

### Storage conditions

Keep container tightly closed in a cool, dry, and well-ventilated area. Refer to Sections 5, 8, and 10. Store with like hazards. Follow Chemical Hygiene Plan. Store away from incompatible materials. Store away from food.

### Incompatibilities

No information available.

## **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	Type	Value
Maganese Chloride	PEL	5 mg/m3
	TWA	15 mg/m3

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

Component	Type	Value
Maganese Chloride	TLV	0.2 mg/m3
	TWA	10 mg/m3

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

No information available.

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### **Biological occupational exposure limits**

No information available

## 8.2 Exposure controls

### Appropriate engineering controls

It is recommended that all dust control equipment such a local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Emergency eye wash fountains and safety showers should be available in the immediate vicinty of use or handling. Provide exhaust ventilation or other enginerring controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits - OELs) indicated above.

### Personal protective equipment

### **Eye/face protection**

Safety glasses with side shields or goggles. Wear equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EU 166 (EU).

### Skin and body protection

Select glove material impermeable and resistant to the substance. Select glove material based on rates of diffusion and degradation. Complete suit protecting against chemicals. The type of protective equipmen must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

#### 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

No information available.

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

### 9.1 Information on basic physical and chemical properties

Physical State Crystalline powder

Appearance Light red
Odor Odorless

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Odor Threshold No information available pH 4.0 - 6 at 99 g/l at 25 °C

Melting Point/Range 58 °C
Boiling Point/Range 1190 °C

Evaporation Rate No information available Flammability (solid) No information available

Flammability or explosive limit

Upper No data available Lower No data available

Vapor Pressure No information available Vapor Density No information available

Density 1.913 g/cm3 Solubility 99 g/l at 20 °C

Partition coefficient; n-octanol/water No information available
Autoignition Temp No information available
Decomposition Temp No information available
Viscosity No information available

Molecular Formula MnCl2 - 4H2O

Molecular Weight 197.9

VOC Content(%) No information available Oxidizing properties No information available

## 9.2 Other safety information

No information available.

## **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

Nonreactice under normal conditions.

### 10.2 Chemical stability

Stable under normal conditions.

## 10.3 Possibility of hazardous reactions

None under normal processing.

## 10.4 Conditions to avoid

Incompatible materials. Dust generation. Excess heat. Exposure to moist air or water.

### 10.5 Incompatible materials

Sodium. Sodium oxides. Strong aicds. Potassium. Zinc. Strong reducing agents. Hydrogen peroxides.

## 10.6 Hazardous decomposition products

Hydrogen chloride. Oxides of maganese. Irritating and toxic fumes and gases.

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

### 11.1 Information on toxicological effects

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### **Product Information, Component Information**

### Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Manganese chloride	1484 mg/kg (rat)	-	-

### Skin corrosion/irritation

No information available

## Serious eye damage/eye irritation

No information available

### Respiratory or skin sensitization

No information available

### Germ cell mutagenicity

Laboratory experiments have shown mutagenic effects.

## Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Manganese chloride	13446-34-9	Not listed				

## Specific target organ toxicity - single exposure

None known

### Specific target organ toxicity - repeated exposure

None known

## Reproductive toxicity

No information available

### **Chronic effects**

No information available

### 11.2 Additional Information

No information available

# **SECTION 12: Ecological information**

# 12.1 Toxicity

Product		Species	Test Results
Manganese Chloride	LC50	Carassius auratus	18.8 mg/l 7 d
	EC50	Daphnia magna	>11 mg/l 48h

# 12.2 Persistence and degradability

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No information available

## 12.3 Bio accumulative potential

No information available

### 12.4 Mobility in soil

No information available

### 12.5 Results of PBT and vPvB assessment

No information available

## 12.6 Endocrine disrupting properties

No information available

### 12.7 Other adverse effects

No information available

## **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)

Not regulated

#### **IMDG**

Not regulated

### **IATA**

Not regulated

### **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)
Listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

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Not listed.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)** 

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Listed, Acute Health Hazard, Chronic Health Hazard.

SARA 313 (TRI reporting)

Not listed.

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** 

Not listed

**US. Pennsylvania Worker and Community Right-to-Know Law** 

Not listed

**California Proposition 65** 

Not listed

**SECTION 16: Other information** 

Issue date: 08/22/2024

Revision: 0

### **SECTION 17: Disclaimer**

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