

# Safety Data Sheet

Issuing Date Dec-12-2016 Revision Date May-06-2022 Revision Number 2

Section 1: IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

Product identifier

Product name MANGANOUS SULFATE SOLUTION

Product Code(s) 4167

Other means of identification

Synonyms none

Pure substance/mixture Mixture

Recommended use of the chemical and restrictions on use

Recommended Use Laboratory chemicals. Industrial (not for food contact use). Chemical additive.

Swimming pool chemicals.

Uses advised against None

Details of manufacturer or importer

LaMotte Company, Inc. 802 Washington Avenue

P.O. Box 329

Chestertown, MD 21620 USA

T 410-778-3100 F 410-778-9748

Supplier LaMotte Pacific Pty Ltd.

2/6 Bonz Place

Seven Hills, NSW 2147 T (02) 9624 8842 F (02) 9674 5115

Contact for timely inquiries in regards to this product

LaMotte Customer Information: system@lamotteco.com

Vendart Pty. Ltd. Customer

Information:

number

info@vendart.com.au

Emergency telephone number

24-Hour Emergency telephone

(CHEM-TEL):USA, Canada, Puerto Rico 1-800-255-3924 Outside North American

Continent (Call collect) 813-248-0585

Local emergency telephone number Poisons Information Center, Australia: 13 11 26

Poisons Information Center, New Zealand: 0800 764 766

# Section 2: HAZARD(S) IDENTIFICATION

#### GHS Classification

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

#### Label elements

Health hazard



#### **Hazard statements**

H373 - May cause damage to organs through prolonged or repeated exposure.

## **Precautionary Statements**

**Prevention:** Do not breathe dust /fume /gas /mist /vapors /spray.

Response: Get medical advice/attention 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. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. IF SWALLOWED: Drink 1 or 2 glasses of water

#### Disposal:

Dispose of contents/container to an approved waste disposal plant.

#### Other hazards which do not result in classification

May be harmful if swallowed. Toxic to aquatic life with long lasting effects.

# Section 3: COMPOSITION & INFORMATION ON INGREDIENTS

#### **Substance**

Not applicable

#### Mixture

Chemical name	CAS No	Weight-%
Manganese sulfate monohydrate	10034-96-5	36
Non-hazardous ingredients	Proprietary	Balance

# **Section 4: FIRST AID MEASURES**

#### Description of first aid measures

**General advice** Show this safety data sheet to the doctor in attendance.

Local emergency telephone number Poisons Information Center, Australia: 13 11 26

Poisons Information Center, New Zealand: 0800 764 766

Remove to fresh air. Inhalation

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

Skin contact Wash skin with soap and water.

Clean mouth with water and drink afterwards plenty of water. Ingestion

Most important symptoms and effects, both acute and delayed

No information available. **Symptoms** 

# **Section 5: FIRE-FIGHTING MEASURES**

**Suitable Extinguishing Media** 

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

Unsuitable extinguishing media No information available.

Specific hazards arising from the chemical

Specific hazards arising from the

chemical

No information available.

Special protective actions for fire-fighters

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

Not Listed. Hazchem code

# **Section 6: ACCIDENTAL RELEASE MEASURES**

#### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Ensure adequate ventilation. Use personal protective equipment as required. Evacuate

personnel to safe areas.

Other Information Refer to protective measures listed in Sections 7 and 8.

Use personal protection recommended in Section 8. For emergency responders

**Environmental precautions** 

See Section 12 for additional Ecological Information. **Environmental precautions** 

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers. After cleaning, flush away traces with

water.

Precautions to prevent secondary hazards

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

# Section 7: HANDLING AND STORAGE, INCLUDING HOW THE CHEMICAL MAY BE SAFELY USFD

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Ensure adequate

ventilation.

Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach

of children. Keep from freezing.

Incompatible materials None known based on information supplied.

# Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

#### **Control parameters**

#### **Exposure Limits**

Chemical name	Australia
Manganese sulfate monohydrate	TWA: 1 mg/m <sup>3</sup>
10034-96-5	

Chemical name	Australia
Manganese sulfate monohydrate	*_
10034-96-5	

#### **Appropriate engineering controls**

Showers **Engineering controls** 

> Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin and body protection Wear suitable protective clothing.

Hand protection Wear suitable gloves. Nitrile rubber.

No protective equipment is needed under normal use conditions. If exposure limits are Respiratory protection

exceeded or irritation is experienced, ventilation and evacuation may be required.

No information available. **Environmental exposure controls** 

# **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

Information on basic physical and chemical properties

**Physical state** Liquid **Appearance** Clear pink

Color No information available

Odor None

Remarks • Method Values **Property** No information available pН

No information available

No information available

Melting point / freezing point Not applicable No information available Boiling point / boiling range No information available No information available Flash point No information available No information available No information available No information available **Evaporation rate** Flammability (solid, gas) No information available No information available Flammability Limit in Air No information available

Upper flammability limit: No data available Lower flammability limit: No data available No information available Vapor pressure Vapor density No information available Relative density No information available

Water solubility No information available Solubility in other solvents Soluble

**Partition coefficient** No information available No information available No information available No information available **Autoignition temperature** Hyphen No information available No information available Kinematic viscosity No information available No information available **Dynamic viscosity** No information available No information available

Other information Softening point

No information available Molecular weight No information available **VOC Content (%)** No information available **Density** No information available No information available **Bulk density** 

## Section 10: STABILITY AND REACTIVITY

**Stability** Stable under normal conditions. Stable under recommended storage conditions.

**Explosion data** 

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge

Possibility of hazardous reactions None under normal processing.

Hazardous polymerization does not occur. Hazardous polymerization

Conditions to avoid None known based on information supplied.

None known based on information supplied. Incompatible materials

Hazardous decomposition products Sulfur oxides (SOx). Manganese oxides.

## Section 11: TOXICOLOGICAL INFORMATION

#### **Acute toxicity**

Information on likely routes of exposure

**Product Information** 

Inhalation Specific test data for the substance or mixture is not available.

**Eve contact** Specific test data for the substance or mixture is not available.

Skin contact Specific test data for the substance or mixture is not available.

Specific test data for the substance or mixture is not available Ingestion

**Symptoms** No information available.

Numerical measures of toxicity

## The following values are calculated based on chapter 3.1 of the GHS document

2,172.00 mg/kg ATEmix (oral)

0% of the mixture consists of ingredient(s) of unknown acute oral toxicity

36 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

36 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

36 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

36 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

## **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Manganese sulfate	= 782 mg/kg (Rat)	-	> 4.45 mg/L (Rat) 4 h
monohydrate			-

See section 16 for terms and abbreviations

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation No information available.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitization No information available.

No information available. Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure May cause damage to organs.

No information available. **Aspiration hazard** 

# **Section 12: ECOLOGICAL INFORMATION**

**Ecotoxicity** 

**Ecotoxicity** The environmental impact of this product has not been fully investigated.

Unknown aquatic toxicity 0 % of the mixture consists of component(s) of unknown hazards to the aquatic

environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Manganese sulfate monohydrate	-	-	-	-

Persistence and degradability

No information available. Persistence and degradability

#### Bioaccumulative potential

Bioaccumulation No information available.

Chemical name	Partition coefficient	
Manganese sulfate monohydrate	-	

**Mobility** 

Mobility in soil No information available.

**Mobility** No information available.

Other adverse effects

No information available. Other adverse effects

Chemical name	EU - Endocrine Disrupters Candidate List	EU - Endocrine Disrupters - Evaluated Substances	Endocrine disrupting potential
Manganese sulfate monohydrate	-	-	-

# **Section 13: DISPOSAL CONSIDERATIONS**

## Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Contaminated packaging Do not reuse empty containers.

# **Section 14: TRANSPORT INFORMATION**

<u>ADG</u> Not regulated

IATA Not regulated

IMDG/IMO Not regulated

# **Section 15: REGULATORY INFORMATION**

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

# **National regulations**

#### Australia

See section 8 for national exposure control parameters

## Standard for Uniform Scheduling of Medicines and Poisons (SUSMP)

No poisons schedule number allocated

## National pollutant inventory

Subject to reporting requirement

Chemical name	Australia - National Pollutant Inventory (NPI) Substance List
Manganese sulfate monohydrate - 10034-96-5	10 tonne/yr Threshold category 1

**International Inventories** 

Complies **TSCA** 

**DSL/NDSL** Does not comply **EINECS/ELINCS** Does not comply

**ENCS** Complies **IECSC** Complies **KECL** Does not comply

**PICCS** Complies Complies **AICS** 

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

#### International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer None known

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

# **Section 16: ANY OTHER RELEVANT INFORMATION**

Regulatory Affairs Department Prepared by

**Issuing Date** Dec-12-2016

**Revision Date** May-06-2022

**Revision note** 

MSDS was reviewed per Canada request - Canada requires MSDS to be dated within 3 years of the request.

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL (Short Term Exposure Limit) STEL

Ceiling Maximum limit value Skin designation

С Carcinogen

## **Disclaimer**

The information provided in this Safety Data Sheet was prepared to the best of our knowledge, data and belief as of the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, and disposal of the product as it relates to properly trained personnel, and is not intended to be comprehensive. It is not to be considered a warranty or quality specification. Users are advised to exercise their own judgment to determine safety, safe handling, use, processing, storage, transportation, and disposal. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of Safety Data Sheet**