

# **Safety Data Sheet**

OSHA format Revision Number 0

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product name MANGANOUS SULFATE SOLUTION

Other means of identification

Product Code(s) 4167

Recommended use of the chemical and restrictions on use

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

Swimming pool chemicals.

Details of the supplier of the safety data sheet

LaMotte Company, Inc. 802 Washington Avenue

P.O. Box 329

Chestertown, MD 21620 USA

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

**Emergency telephone number** 

24 Hour Emergency Number (CHEM-TEL):USA, Canada, Puerto Rico 1-800-255-3924 Outside North American Continent (Call collect) 813-248-0585

# 2. HAZARDS IDENTIFICATION

Specific target organ toxicity (repeated exposure)

Category 2

# **EMERGENCY OVERVIEW**

#### WARNING

#### Hazard statements

May cause damage to organs through prolonged or repeated exposure.



Appearance Clear pink Physical state liquid

Odor None

#### **Precautionary Statements - Prevention**

Do not breathe dust/fume/gas/mist/vapors/spray.

# **Precautionary Statements - Response**

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. Take off contaminated clothing and wash before reuse.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF SWALLOWED. Drink 1 or 2 glasses of water. Call a physician immediately.

#### **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep cool.

#### **Precautionary Statements - Disposal**

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

#### Other Hazards

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

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS\*

Chemical name	CAS No	Weight-%
Manganese sulfate monohydrate	10034-96-5	36

# 4. FIRST AID MEASURES

**First Aid Measures** 

**General advice** Do not get in eyes, on skin, or on clothing.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call

a physician immediately.

**Skin contact** Wash off immediately with soap and plenty of water for at least 15 minutes. Take off

contaminated clothing and wash before reuse. Consult a physician if necessary.

**Inhalation** Remove to fresh air. Call a physician immediately.

**Ingestion** DO NOT induce vomiting unless directed to do so by a physician or poison control center.

Never give anything by mouth to an unconscious person. Call a physician immediately.

Self-protection of the first aider Use personal protection recommended in Section 8. Ensure that medical personnel are

aware of the material(s) involved, take precautions to protect themselves and prevent

spread of contamination.

### 5. FIREFIGHTING MEASURES

#### Suitable extinguishing media

Water spray, dry chemical, carbon dioxide (CO<sub>2</sub>), or foam.

### 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.

#### 6. ACCIDENTAL RELEASE MEASURES

# Personal precautions, protective equipment and emergency procedures

clothing.

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

## Methods and material for containment and cleaning up

**Methods for containment**Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth,

diatomaceous earth, vermiculite) and place in container for disposal according to local /

national regulations (see Section 13).

Methods for cleaning up

Use personal protective equipment. Contain and collect spillage with non-combustible

absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13). Following product recovery, flush area with water.

#### 7. HANDLING AND STORAGE

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Use only in area

provided with appropriate exhaust ventilation. Prevent contact with skin, eyes, and clothing.

Do not taste or swallow. Do not eat, drink, or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from

incompatible materials. Keep out of the reach of children.

Incompatible Products Strong bases. Metals.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Manganese sulfate monohydrate	TWA: 0.02 mg/m <sup>3</sup> Mn	(vacated) Ceiling: 5 mg/m <sup>3</sup>	IDLH: 500 mg/m³ Mn
10034-96-5	TWA: 0.1 mg/m <sup>3</sup> Mn	Ceiling: 5 mg/m <sup>3</sup> Mn	TWA: 1 mg/m³ Mn
	_		STEL: 3 mg/m³ Mn

#### Appropriate engineering controls

Engineering Measures Showers

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 Gloves & Lab Coat.

respiratory equipment.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state liquid

AppearanceClear pinkOdorNone

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

Not Applicable

pH 3

Melting point / freezing pointNo information availableBoiling point / boiling rangeNo information available

Flash point Evaporation rate

Flammability (solid, gas) No information available

Flammability Limit in Air
Upper flammability limit:

No information available

Upper flammability limit:No information availableLower flammability limit:No information available

No information available Vapor pressure No information available Vapor density No information available Specific gravity No information available Water solubility Solubility in other solvents No information available Partition coefficient No information available **Autoignition temperature** No information available **Decomposition temperature** No information available Kinematic viscosity No information available Dynamic viscosity No information available No information available **Explosive properties Oxidizing properties** No information available

#### **Other Information**

Softening point
Molecular weight
VOC Content (%)
Density
No information available

# 10. STABILITY AND REACTIVITY

**Stability**Stable under recommended storage conditions.
Hazardous polymerization
Hazardous polymerization does not occur.

Conditions to avoidExcessive heat.Incompatible materialsStrong bases. Metals.

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

# 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Component identification

Chemical name	ATEmix (oral)	ATEmix (dermal)	Inhalation LC50
Manganese sulfate monohydrate	= 782 mg/kg (Rat)	Not Established	Not Established
10034-96-5			

Information on toxicological effects

Chemical name	ACGIH	IARC	NTP	OSHA
Manganese sulfate	Not Established	Not Established	Not Established	Not Established
monohydrate				
10034-96-5				

Chronic toxicity Chronic manganese poisoning primarily involves the central nervous system. Chronic

manganese poisoning can result from excessive inhalation and ingestion. Early symptoms include sluggishness, sleepiness, and weakness in the legs. Kidney effects. Chronic

inhalation exposure can cause lung damage.

**ATEmix (oral)** 2,172.00 mg/kg

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Unknown Aquatic Toxicity 64 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical name	Toxicity to Algae	Toxicity to Fish	Daphnia Magna (Water Flea)
Manganese sulfate monohydrate	Not Established	Not Established	Not Established
10034-96-5			

# Persistence and degradability

No information available.

# **Bioaccumulation/Accumulation**

No information available.

Chemical name	Log Pow
Manganese sulfate monohydrate	Not Established
10034-96-5	

# 13. DISPOSAL CONSIDERATIONS

**Disposal Methods** Dispose of waste product or used containers according to local regulations.

**Contaminated packaging** Do not reuse empty containers.

Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Manganese sulfate	Not Established	-	Not Established	Not Established
monohydrate				
10034-96-5				

Chemical name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Manganese sulfate monohydrate 10034-96-5	Not Established	Not Established	Not Established	Not Established

Chemical name	California Hazardous Waste Status
Manganese sulfate monohydrate	-
10034-96-5	

# 14. TRANSPORT INFORMATION

**DOT** Not regulated

IATA Not regulated

IMDG/IMO Not regulated

# 15. REGULATORY INFORMATION

**International Inventories** 

TSCA Complies **DSL/NDSL** Does not comply **EINECS/ELINCS** Does not comply **ENCS** Complies **IECSC** Complies Does not comply **KECL PICCS** Complies **AICS** Complies

<u>Legend:</u>

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

# **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	SARA 313 - Threshold Values %
Manganese sulfate monohydrate 10034-96-5	1.0
SARA 311/312 Hazard Categories	·
Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

# **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Manganese sulfate monohydrate 10034-96-5	Not Established	Not Established	Not Established	Not Established

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	RQ
Manganese sulfate monohydrate	-	Not Established	-
10034-96-5			

# **US State Regulations**

#### California Proposition 65

Chemical name	California Proposition 65	
Manganese sulfate monohydrate	Not Established	
10034-96-5		

#### U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Manganese sulfate monohydrate	X	Not Established	X
10034-96-5			

# CPSC (Consumer Product Safety Commission) - Specially Regulated Substances

# | MFPA | Health hazard 1 | Flammability 0 | Instability 0 | Physical and Chemical Hazards N/A | Health hazard 2 | Flammability 0 | Stability 0



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

# **Disclaimer**

The information provided on this SDS 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.

**End of Safety Data Sheet**