# **Safety Data Sheet**



## 1. IDENTIFICATION

Product NameManganese Sulfate GranulesRecommended useFertilizer and Animal FeedSupplierValudor Products, LLC.

179 Calle Magdalena, Suite 100

Encinitas, CA 92024 (760) 635-8500

**Emergency Telephone** (800) 535-5053 (Infotrac)

## 2. HAZARD IDENTIFICATION

#### Classification

This product considered hazardous under the U.S. OSHA 29 CFR 1910.1200 Hazard Communication Standard.

Specific target organ toxicity – repeated	Category 2
exposure	

## **Label Elements**

## **GHS Pictograms**



Signal Word Warning

Hazard Statements May cause damage to organs through prolonged or repeated

exposure.

**Precautionary Statements** –

Prevention
Prevention
Response
Disposal
Do not breathe dust/fume/gas/mist/vapors/spray
Get medical advice/attention if you feel unwell
Dispose of container in accordance with

local/regional/national regulations.

Hazards not other classified N

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

## **Substance**

Chemical name	CAS-No	Weight-%
Manganese Sulfate	10034-96-5	> 95
Monohydrate		

# 4. FIRST-AID MEASURES

## First Aid Measures

**Eye Contact** Immediately rinse with plenty of water. Remove contact

lenses, if present and easy to do so. Keep eye wide open while rinsing. Continue rinsing for 15 minutes. Call a doctor/

physician if irritation persists

**Skin Contact** Wash off immediately with plenty of water. Remove all

contaminated clothes and shoes. If skin irritation persists,

call a doctor/physician.

**Inhalation** Remove to fresh air. If not breathing, give artificial

respiration. Get medical attention.

**Ingestion** Do not induce vomiting without medical advice. Rinse

mouth with water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

## Most important symptoms/effects, acute and delayed

**Symptoms** No information available

## **5. FIRE-FIGHTING MEASURES**

**Suitable extinguishing Media** Use any means suitable for extinguishing surrounding fire.

Unsuitable Extinguishing Media No information available

## **Specific Hazards Arising from the chemical**

Hazardous combustion products Thermal decomposition can lead to the release of irritation or

toxic gases and vapors; including and not limited to: Sulfur

oxides

## Protective equipment and precautions for fire-fighters

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

**Personal precautions** Avoid contact with eyes, skin and clothing. Avoid breathing

vapors or mists. Use personal protection recommended in

Section 8. Ensure adequate ventilation.

## Methods and materials for containment and cleanup

Methods for clean-up Sweep or vacuum up and place in an appropriate closed

container. Keep unauthorized personnel away. Avoid

generating dust.

**Environmental Precautions** Prevent entry into waterways or sewers

#### 7. HANDLING AND STORAGE

## **Precautions for safe handling**

Ensure adequate ventilation. Avoid dust formation. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Wear personal protective equipment recommended in section 8. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

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

Store in a cool/low-temperature, well-ventilated, dry place. Keep containers closed and labeled when not in use.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Exposure Guidelines**

Component	ACGIH	OSHA	NIOSH
Manganese Sulfate	TWA: 0.2 mg/m3	Ceiling: 5 mg/m3	TWA: 1 mg/m3
			STEL: 3 mg/m3

#### **Appropriate engineering controls**

Ensure adequate ventilation, especially in confined areas. Consider the potential hazards of this material, applicable exposure limits, job activities and other substances in the workplace when designing controls and selecting personal protective equipment.

#### **Personal Protective Equipment**

Eye/face protection Safety glasses are recommended in professional settings

**Skin protection** Choose the appropriate protective clothing and gloves based

on the tasks being performed to avoid exposure to skin. Wear

protective gloves. Long sleeved protective clothing.

Respiratory protection

Not required under normal circumstances. If exposure limits

are exceeded or if irritation or other symptoms are

experienced use a NIOSH/MSHA approved respirator

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety

practices. Do not eat, drink or smoke when using this

product.

## 9. PHYSICAL and CHEMICAL PROPERTIES

**Appearance** White Granules

Physical stateSolidOdorOdorless

**Odor threshold** No information available

pH Not applicable
 Melting point / freezing point
 Boiling point / Boiling range
 Flash point
 Evaporation rate
 Not applicable
 Not applicable
 Not applicable

Flammability No information available

Flammability or explosive

limits

UpperNo information availableLowerNo information availableVapor pressureNo information available

Vapor densityNo information availableSpecific Gravity3.70 g/cm3 at 20 C

Solubility in water Soluble

Partition coefficientNo information availableAuto-ignition temperatureNo information availableDecomposition temperatureNo information availableViscosityNo information available

## 10. STABILITY AND REACTIVITY

**Reactivity** None known under normal conditions.

**Chemical stability** Stable under ordinary conditions of use and storage.

Possibility of hazardous

reactions

None under normal processing.

**Conditions to avoid** Avoid dust formation.

**Incompatible materials** Strong bases.

**Hazardous decomposition** 

products

Hazardous combustion can lead to the release of irritating

gases and vapors.

# 11. TOXICOLOGICAL INFORMATION

## Information on likely routes of exposure

**Skin contact** May cause skin irritation **Eve contact** May cause eye irritation

**Inhalation** May cause irritation of respiratory tract

**Ingestion** May be harmful if swallowed

## Symptoms related to the physical chemical and toxicological characteristics

No information available

## Delayed and immediate effects and also chronic effects form short and long-term exposure

Skin damage/irritationNot classifiedEye damage/irritationNot classifiedSensitizationNot classifiedMutagenic effectsNot classifiedCarcinogenicityNot classifiedReproductive toxicityNot classifiedSTOT – single exposureNot classified

STOT – repeated exposure May cause damage to organs through prolonged or repeated

exposure

**Aspiration hazard** Not classified

# **Acute Toxicity**

#### **Component information**

Component	Cas-No	LD50 Oral	LD50 Dermal	LC50 Inhalation

2.6	7705 07 7	2 000 #		
Manganese Sulfate	7785-87-7	> 2,000  mg/kg	-	-

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** Should not be released to environment. Toxic to aquatic life.

Component	Freshwater Fish	Freshwater Algae	Water Flea
Manganese Sulfate	LC: 49.9 mg/l; 96hr	-	-
	(Salmo trutta)		

**Persistence and degradability** No information available

**Bioaccumulative potential** No information available

Mobility in soil No information available

Other adverse effects No information available

# 13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods Processing, use, or contamination of this product may occur

during product use. Accordingly, it is the responsibility of the user to determine the proper disposal methodologies. Consult the appropriate state, regional or local regulations to ensure complete and accurate classification. Dispose of contaminated packaging in accordance with local regulations.

## 14. TRANSPORT INFORMATION

**DOT** Not Regulated

Classification depends on package size, mode of transport and other factors. Always consult local regulations before shipment

# 15. REGULATORY INFORMATION

## **International Inventories**

TSCA	Listed
DSL	Listed

## **US Federal Regulations**

TSCA section 12(b) Export Notification

Not regulated

**SARA 313** 

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains the following compounds which are subject to the reporting requirements of the Act and 40 CFR, Part 372: Manganese compounds >95%

## SARA 311/312 Hazard Categorization

Acute health hazard	No
Chronic Health Hazard	Yes
Fire hazard	No
Pressure	No
Reactivity	No

#### **CERCLA/SARA 302 & 304**

Section 302 & 304 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). Not applicable

#### **CWA (Clean Water Act)**

Not applicable

## **US State Regulations**

## California Proposition 65

This product does not contain any proposition 65 chemicals

## 16. OTHER INFORMATION

Health: 1 Flammability: 0 Reactivity: 0 NFPA Ratings

Creation Date: 2/21/2016 Revision Date: 10/15/2019 **Revision Number:** 1.0

**Revision Information** Creation

# Disclaimer

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