

## 1. IDENTIFICATION

**Product Name** Manganese Sulfate Granular  
**Recommended use**  
**Supplier** Valudor Products, LLC.  
 11260 El Camino Real, Suite 210  
 San Diego, Ca 92130  
 (760) 635 9051  
**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 exposure	Category 2
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### Label Elements

#### GHS Pictograms



**Signal Word**  
**Hazard Statements**

**Precautionary Statements –**  
 Prevention  
 Response  
 Disposal

**Hazards not other classified**

#### **Warning**

May cause damage to organs through prolonged or repeated exposure

Do not breathe dust/fume/gas/mist/vapors/spray  
 Get medical advice/attention if you feel unwell  
 Dispose of contents/container in accordance with local/regional/national regulations

None

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

### Substance

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

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#### 4. FIRST-AID MEASURES

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##### First Aid Measures

<b>Eye Contact</b>	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
<b>Skin Contact</b>	Wash off immediately with plenty of water. Remove all contaminated clothes and shoes. If skin irritation persists, call a doctor/physician
<b>Inhalation</b>	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention.
<b>Ingestion</b>	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

<b>Symptoms</b>	No information available
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#### 5. FIRE-FIGHTING MEASURES

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**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.

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#### 6. ACCIDENTAL RELEASE MEASURES

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##### 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

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## 7. HANDLING AND STORAGE

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**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.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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**Exposure Guidelines**

Component	ACGIH	OSHA	NIOSH
Manganese Sulfate	TWA: 0.2 mg/m <sup>3</sup>	Ceiling: 5 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup> STEL: 3 mg/m <sup>3</sup>

**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**

<b>Eye/face protection</b>	Safety glasses are recommended in professional settings
<b>Skin protection</b>	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.
<b>Respiratory protection</b>	Not required under normal circumstances. If exposure limits are exceeded or if irritation or other symptoms are experienced use a NIOSH/MSHA approved respirator
<b>Hygiene Measures</b>	Handle in accordance with good industrial hygiene and safety practices. Do not eat, drink or smoke when using this product.

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## 9. PHYSICAL and CHEMICAL PROPERTIES

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<b>Appearance</b>	White Granules
<b>Physical state</b>	Solid
<b>Odor</b>	Odorless
<b>Odor threshold</b>	No information available
<b>pH</b>	Not applicable
<b>Melting point / freezing point</b>	> 1292 F / > 700 C
<b>Boiling point / Boiling range</b>	Not applicable
<b>Flash point</b>	Not applicable
<b>Evaporation rate</b>	Not applicable
<b>Flammability</b>	No information available
<b>Flammability or explosive limits</b>	
<b>Upper</b>	No information available

<b>Lower</b>	No information available
<b>Vapor pressure</b>	No information available
<b>Vapor density</b>	No information available
<b>Specific Gravity</b>	3.70 g/cm <sup>3</sup> at 20 C
<b>Solubility in water</b>	Soluble
<b>Partition coefficient</b>	No information available
<b>Auto-ignition temperature</b>	No information available
<b>Decomposition temperature</b>	No information available
<b>Viscosity</b>	No information available

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## 10. STABILITY AND REACTIVITY

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<b>Reactivity</b>	None known under normal conditions.
<b>Chemical stability</b>	Stable under ordinary conditions of use and storage.
<b>Possibility of hazardous reactions</b>	None under normal processing.
<b>Conditions to avoid</b>	Avoid dust formation.
<b>Incompatible materials</b>	Strong bases.
<b>Hazardous decomposition products</b>	Hazardous combustion can lead to the release of irritating gases and vapors.

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## 11. TOXICOLOGICAL INFORMATION

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### Information on likely routes of exposure

<b>Skin contact</b>	May cause skin irritation
<b>Eye contact</b>	May cause eye irritation
<b>Inhalation</b>	May cause irritation of respiratory tract
<b>Ingestion</b>	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

<b>Skin damage/irritation</b>	Not classified
<b>Eye damage/irritation</b>	Not classified
<b>Sensitization</b>	Not classified
<b>Mutagenic effects</b>	Not classified
<b>Carcinogenicity</b>	Not classified
<b>Reproductive toxicity</b>	Not classified
<b>STOT – single exposure</b>	Not classified
<b>STOT – repeated exposure</b>	May cause damage to organs through prolonged or repeated exposure
<b>Aspiration hazard</b>	Not classified

### Acute Toxicity

**Component information**

Component	Cas-No	LD50 Oral	LD50 Dermal	LC50 Inhalation
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

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**16. OTHER INFORMATION**

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**NFPA Ratings**            Health: 1                            Flammability: 0                            Reactivity: 0

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Revision Date:

Revision Number:        1.0

Revision Information    Creation

**Disclaimer**

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