

## 1. IDENTIFICATION

**Product Name** Manganese Sulfate Powder  
**Recommended use** Fertilizer and Animal Feed  
**Supplier** Valudor 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 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

## 4. FIRST-AID MEASURES

**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/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**

<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. Wear 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 Powder
<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

Vapor density	No information available
Specific Gravity	3.70 g/cm <sup>3</sup> at 20 C
Solubility in water	Soluble
Partition coefficient	No information available
Auto-ignition temperature	No information available
Decomposition temperature	No information available
Viscosity	No 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
Eye 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/irritation	Not classified
Eye damage/irritation	Not classified
Sensitization	Not classified
Mutagenic effects	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
STOT – single exposure	Not 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
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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 Information    Creation

**Disclaimer**

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