

# SAFETY DATA SHEET

# 1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME: Manganese Sulfate, Monohydrate, ACS Reagent

PRODUCT NUMBER: M250

COMPANY INFO: PhytoTech Labs Inc.

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EMERGENCY PHONE NUMBER 1-800-535-5053 - US Only (INFOTRAC): 1-352-323-3500 - International

RECOMMENDED USE: For Research Use Only

Products sold by PhytoTech Labs Inc. are intended for research and laboratory use only.

RESTRICTIONS ON USE: Products are not to be used as human or animal therapeutics, cosmetics, agricultural or pesticidal

products, food additives, in vitro diagnostics, or as household chemicals.

#### 2. HAZARDS IDENTIFICATION

#### Classification of the substance or mixture:

**GHS** Classification:

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

H401 – Acute aquatic toxicity (Category 2)

H411 – Chronic aquatic toxicity (Category 2))

# GHS Label elements, including hazard and precautionary statements:

Pictogram

**\$** 

Signal Word: Warning

## Hazard Statements:

H373 – May cause damage to organs through prolonged

or repeated exposure.

H411 – Toxic to aquatic life with long lasting effects.

### **Precautionary Statements:**

P260 – Do not breathe dust.

P273 – Avoid release to the environment.

P280 – Wear proactive clothing/protective gloves/eye protection.

P314 – Get medical advice/attention if you feel unwell.

Hazards not otherwise classified (HNOC) or not covered by GHS: - none

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS No: 10034-96-5Formula:  $MnSO_4 \cdot H_2O$ Molecular Weight: 169.02 g/mol EC No.: 232-089-9

Ingredient	CAS Number	Percent	Hazardous
Manganese Sulfate, Monohydrate	10034-96-5	>98 %	OSHA PEL: 5 mg (Mn)/m <sup>3</sup> ; ACGIH TLV: 0.2 mg (Mn)/m <sup>3</sup>

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# 4. FIRST AID MEASURES

General Advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous

area.

**Route of Entry Symptoms** First Aid Procedures Ingestion May cause irritation if swallowed If swallowed, wash out mouth with water. Never give anything by mouth to an unconscious person. Get medical attention. Inhalation May cause irritation to respiratory Safely remove victim to fresh air. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, tract ensure clear airway and give oxygen. Get medical attention. Flush immediately with large amounts of water for at least 15 Eye Contact Direct contact may cause irritation. May cause redness, tearing, or minutes. Eyelids should be held away from the eyeball to blurred vision. ensure thorough rinsing. Get medical attention if irritation persists. Skin Contact Irritating. May cause reddening, Wash area thoroughly with soap and water. Remove and wash contaminated clothing. Get medical attention if irritation itching or inflammation. persists.

Most Important Symptoms or Effects, Both Acute and Delayed:

See section 2 and/or section 11

Recommendation for Immediate Medical Care and Special Treatment Needed:

No data available

#### 5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water spray, carbon dioxide, dry chemical powder, or appropriate foam. Use

extinguishing media suitable for surrounding fire.

Special Protective Equipment and

Precaution for Firefighters:

In the event of a fire, wear full protective clothing and NIOSH approved self-

contained breathing apparatus. Evacuate the area and fight fire from a safe distance.

Hazardous Combustion Products: No data available

### 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Use personal protection recommended in Section 8. Avoid dust formation. Avoid breathing dust, vapors, mist or gas. Ensure adequate ventilation, especially in confined areas. Evacuate personnel to safe areas.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Method of Containment and Cleanup: Wear suitable protective clothing. Avoid dust formation. Carefully sweep up and

remove. Place material in a dry container and cover. Remove from the area. Flush

spill area with water. Do not let product enter drains.

7. HANDLING AND STORAGE

Precaution for Safe Handling: Avoid contact with skin and eyes. Avoid dust formation and aerosols. Avoid

incompatible substances. Provide adequate ventilation at places where dust is formed.

Wash thoroughly after use.

Conditions for Safe Storage: Keep in a tightly closed container and store in a cool, dry, and well-ventilated area.

Product is hygroscopic.

Incompatibilities: Strong oxidizing agent

Recommended Storage Temperature: Room Temperature

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA's Permissible Exposure Limits (PELs): 5 mg/m<sup>3</sup>

Threshold Limit Values (TLVs): 0.2 mg/m<sup>3</sup>

Engineering Controls: Handle in accordance to general industrial hygiene and safety practice.

Personal Protective Equipment (PPE):

Eye/Face Protection: Chemical safety glasses or goggles. Have eye-washing facilities readily available where

eye contact can occur.

Skin Protection: Protective gloves

Body Protection: Lab coat

Respiratory Protection: A NIOSH/MSHA approved air purifying respirator.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Pale Pink Powder
pH: No data available
Solubility: Soluble in water
Melting Range: 700 °C (1,292 °F)
Vapor Density: No data available
Vapor Pressure: No data available

Specific Gravity: 2.95

Odor: Odorless

Odor Threshold: No data available Viscosity: No data available

Relative Density: 2.95 g/cm<sup>3</sup>

Evaporation Rate: No data available

Initial Boiling Point and

Boiling Range: No data available

Flammability (solid, gas): No data available

Partition coefficient:

n-octanol/water):

No data available

Auto-ignition Temperature: No data available

Decomposition Temperature: No data available

Flash Point (Closed Cup): No data available

Flammable Limits: Upper (%) – No data available Lower (%) – No data available

#### 10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: Stable under normal conditions of use – This material is slightly hygroscopic

Possibility of Hazard Reactions: Will not occur

Conditions to Avoid: Moisture

Incompatibles Materials: Strong oxidizing agents, powdered metals, hydrogen peroxide

Hazardous Decomposition Products: Sulfur oxides, manganese oxides

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#### 11. TOXICOLOGICAL INFORMATION

Toxicity: LD<sub>50</sub> (Oral-Rat)(mg/Kg) No data available

LD<sub>50</sub> (IPR-Mouse)(mg/Kg) No data available

LD<sub>50</sub> (Dermal-Rat)(mg/Kg) No data available

Carcinogenicity: NTP: No

IARC: No

OSHA Reg: No

Reproductive Toxicity: No data available

Specific Target Organ

Single Exposure: No data available

Toxicity:

Repeated Exposure: No data available

Target Organs: No data available

Routes of Entry: Inhalation, ingestion, skin and eye contact

NIOSH/RTECS NO: OP0893500

# The toxicological properties of this product have not been thoroughly investigated

# 12. ECOLOGICAL INFORMATION

Ecotoxicity: No data available
Persistence and Degradability: No data available
Bioaccumulative Potential: No data available
Mobility in Soil: No data available
Other Adverse Effects: No data available

# 13. DISPOSAL CONSIDERATION

Disposal Procedure: Dispose in accordance with all applicable federal, state, and local environmental

regulations.

#### 14. TRANSPORT INFORMATION

Domestic (D.O.T.): Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

Hazard Class: N/A
Reportable Quantity: N/A
UN/NA: N/A
Labels: N/A

International:

IMDG: Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

Hazard Class: N/A

UN/NA: N/A Labels: N/A

IATA: Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

Hazard Class: N/A

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UN/NA: N/A

Labels: N/A

#### 15. REGULATORY INFORMATION

TSCA:

**SARA TITLE III:** 

Section 302 (EHS) Ingredients: No

Section 313 Ingredients: Yes – Manganese compound of concentration >1.0 %

Section 304 (EHS/CERCLA) Ingredients: No

Section 311/312 Hazard: Chronic Health Hazard

**Massachusetts Right to Know Components:** This product is not on the Massachusetts Substance List (MSL).

**Pennsylvania Right to Know Components:** CAS No.: 10034-96-5 Manganese Sulfate Monohydrate

**New Jersey Right to Know Components:** This product is not listed amongst the New Jersey Right to Know Hazardous

**Substance Fact Sheets** 

**California Prop. 65 Components:** This product is not known to the State of California to cause cancer or

reproductive toxicity.

16. OTHER INFORMATION

**HMIS Rating:** 

	Health Hazard	Flammability	Physical Hazard	Personal Protection
	0	0	0	0
	Health Hazard	Health Hazard Fire Hazard		Special Hazard
Γ	0	0	0	

**NFPA Rating:** 

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