# **Safety Data Sheet**

Issue Date: 15-Jun-2021 Revision Date: 16-Jun-2021 Version 1

# 1. IDENTIFICATION

**Product identifier** 

Product Name Manganese 5%

Other means of identification

**SDS #** GRPR-081

Recommended use of the chemical and restrictions on use

Recommended Use Fertilizer.

Details of the supplier of the safety data sheet

**Supplier Address** 

Plant Health Intermediate DBA Douglas Plant Health 1550 E Old 210 Hwy Liberty, MO 64068

Emergency telephone number

Company Phone Number (914) 428-1316

Emergency Telephone INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America)

#### 2. HAZARDS IDENTIFICATION

Appearance According to product

specification

Physical state Liquid

**Odor** According to product specification

Classification

Specific target organ toxicity (repeated exposure)

Category 2

# Signal Word Warning

#### **Hazard statements**

May cause damage to organs through prolonged or repeated exposure



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

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

## <u>Precautionary Statements - Response</u>

Get medical advice/attention if you feel unwell

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

Dispose of contents/container to an approved waste disposal plant

#### Other hazards

Harmful to aquatic life with long lasting effects

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Sodium Glucoheptonate	31138-65-5	15-20
Manganese Sulfate Monohydrate	10034-96-5	15-20

<sup>\*\*</sup>If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

# 4. FIRST AID MEASURES

#### **Description of first aid measures**

**General Advice** Provide this SDS to medical personnel for treatment.

**Eye Contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes.

**Inhalation** Remove to fresh air.

**Ingestion** Clean mouth with water and drink afterwards plenty of water.

#### Most important symptoms and effects, both acute and delayed

**Symptoms** May cause damage to organs through prolonged or repeated exposure.

#### Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

## Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media Not determined.

## **Specific Hazards Arising from the Chemical**

Not determined.

## 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

**Personal Precautions**Use personal protective equipment as required.

Environmental precautions

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

#### Methods and material for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Clean-Up** Keep in suitable, closed containers for disposal.

# 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Do not breathe

dust/fume/gas/mist/vapors/spray.

# Conditions for safe storage, including any incompatibilities

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

Incompatible Materials None known based on information supplied.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Exposure Guidelines**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Manganese Sulfate Monohydrate	TWA: 0.02 mg/m <sup>3</sup> Mn respirable	(vacated) Ceiling: 5 mg/m <sup>3</sup>	IDLH: 500 mg/m <sup>3</sup> Mn
10034-96-5	particulate matter	Ceiling: 5 mg/m <sup>3</sup> Mn	TWA: 1 mg/m³ Mn
	TWA: 0.1 mg/m³ Mn inhalable		STEL: 3 mg/m <sup>3</sup> Mn
	particulate matter		

# **Appropriate engineering controls**

**Engineering Controls** Apply technical measures to comply with the occupational exposure limits.

## Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Refer to 29 CFR 1910.133 for eye and face protection regulations.

**Skin and Body Protection** Refer to 29 CFR 1910.138 for appropriate skin and body protection.

**Respiratory Protection** Refer to 29 CFR 1910.134 for respiratory protection requirements.

General Hygiene Considerations 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

Appearance According to product specification Odor According to product

specification

Color According to product specification Odor Threshold Not determined

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

pH Not determined
Melting point / freezing point
Boiling point / boiling range
Flash point
Evaporation Rate
Not determined
Not determined
Not determined
Not determined
Not determined

Not determined

Flammability (Solid, Gas) Flammability Limit in Air

Upper flammability or explosive Not determined

Lower flammability or explosive Not determined

limits

**Vapor Pressure** Not determined **Vapor Density** Not determined **Relative Density** Not determined **Water Solubility** Not determined Solubility in other solvents Not determined **Partition Coefficient** Not determined **Autoignition temperature** Not determined **Decomposition temperature** Not determined Kinematic viscosity Not determined **Dynamic Viscosity** Not determined **Explosive Properties** Not determined **Oxidizing Properties** Not determined

# 10. STABILITY AND REACTIVITY

#### Reactivity

Not reactive under normal conditions.

#### **Chemical stability**

Stable under recommended storage conditions.

#### Possibility of hazardous reactions

None under normal processing.

#### **Conditions to Avoid**

Keep out of reach of children.

#### **Incompatible materials**

None known based on information supplied.

# Hazardous decomposition products

None known based on information supplied.

# 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

**Product Information** 

**Eye Contact** Avoid contact with eyes.

**Skin Contact** Avoid contact with skin.

Inhalation Do not inhale.

Ingestion Do not ingest.

# **Component Information**

Chemical na	me Ora	I LD50	Dermal LD50	Inhalation LC50
Sodium Glucoher 31138-65-		ng/kg (Rat)	= 4040 mg/kg (Rat)	-

#### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** Please see section 4 of this SDS for symptoms.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Carcinogenicity** Based on the information provided, this product does not contain any carcinogens or

potential carcinogens as listed by OSHA, IARC or NTP.

**STOT - repeated exposure** May cause damage to organs through prolonged or repeated exposure.

#### **Numerical measures of toxicity**

The following values are calculated based on chapter 3.1 of the GHS document

 Oral LD50
 8,605.6967 mg/kg

 Dermal LD50
 8,597.10 mg/kg

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Harmful to aquatic life with long lasting effects.

#### Persistence/Degradability

Not determined.

#### **Bioaccumulation**

There is no data for this product.

#### Mobility

Not determined

#### **Other Adverse Effects**

Not determined

# 13. DISPOSAL CONSIDERATIONS

## **Waste Treatment Methods**

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and

regulations.

# 14. TRANSPORT INFORMATION

**Note** Please see current shipping paper for most up to date shipping information, including

exemptions and special circumstances.

**DOT** Not regulated

IATA Not regulated

<u>IMDG</u> Not regulated

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# 15. REGULATORY INFORMATION

#### **International Inventories**

Chemical name	TSCA	TSCA Inventory	DSL/NDSL	<b>EINECS/ELI</b>	ENCS	IECSC	KECL	PICCS	AICS
		Status		NCS					
Water	Х	ACTIVE	Х	Х	Х	Х	Х	Х	X
Sodium Glucoheptonate	Х	ACTIVE	Х	X	Х	X	X	X	X
Manganese Sulfate					Х	X		Х	X
Monohydrate									

#### Legend:

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

#### **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).

# **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	CAS No	Weight-%	SARA 313 - Threshold Values %
Manganese Sulfate Monohydrate - 10034-96-5	10034-96-5	15-20	1.0

#### **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)

# **US State Regulations**

## **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

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

Chemical name	New Jersey	Massachusetts	Pennsylvania
Manganese Sulfate Monohydrate	X		X
10034-96-5			

# **16. OTHER INFORMATION**

**Health Hazards** NFPA **Flammability** Instability **Special Hazards** Not determined Not determined Not determined Not determined **Health Hazards Flammability** Physical hazards **Personal Protection HMIS** Not determined Not determined Not determined Not determined

Issue Date:15-Jun-2021Revision Date:16-Jun-2021Revision Note:New format

# **Disclaimer**

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

**End of Safety Data Sheet**