# Safety Data Sheet

Issue Date: 19-Jun-2020

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Version 1

**1. IDENTIFICATION** 

Product identifier	
Product Name	

Manganese L

**GRPR-040** 

Other means of identification SDS #

Recommended use of the chemical and restrictions on useRecommended UsePlant Nutrients.

#### 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 Emergency Telephone (914) 428-1316 INFOTRAC 1-352-323-3500 (International) 1-800-535-5053 (North America)

#### 2. HAZARDS IDENTIFICATION

Physical state Liquid

#### **Classification**

This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

#### Other hazards

Harmful to aquatic life with long lasting effects

#### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical name	CAS No	Weight-%
Manganese	7439-96-5	1-5

\*\*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**

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 None known.

#### 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.	
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 7439-96-5	TWA: 0.02 mg/m <sup>3</sup> respirable particulate matter TWA: 0.1 mg/m <sup>3</sup> inhalable particulate matter TWA: 0.02 mg/m <sup>3</sup> Mn respirable particulate matter	(vacated) TWA: 1 mg/m <sup>3</sup> fume (vacated) STEL: 3 mg/m <sup>3</sup> fume (vacated) Ceiling: 5 mg/m <sup>3</sup> Ceiling: 5 mg/m <sup>3</sup> fume Ceiling: 5 mg/m <sup>3</sup> Mn	TWA: 1 mg/m <sup>3</sup> fume TWA: 1
	TWA: 0.1 mg/m <sup>3</sup> Mn inhalable particulate matter		WIT

#### 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 Appearance Color	Liquid Not determined Not determined
Property	Values
pH	Not determined
Melting point / freezing point	Not determined
Boiling point / boiling range	Not determined
Flash point	Not determined
Evaporation Rate	Not determined
Flammability (Solid, Gas)	Liquid-Not applicable
Flammability Limit in Air	
Upper flammability or explosive	Not determined
limits	
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

Odor	
Odor Threshold	

Not determined Not determined

Remarks • Method

# **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 name	Oral LD50	Dermal LD50	Inhalation LC50
Manganese	= 9 g/kg (Rat)	-	-
7439-96-5			

#### 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.

#### Numerical measures of toxicity Not determined.

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Harmful to aquatic life with long lasting effects.

#### **Component Information**

Chemical name	Algae/aquatic plants	Fish	Crustacea
Manganese		3.6: 96 h Oncorhynchus mykiss	
7439-96-5		mg/L LC50 semi-static	

#### 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.

#### California Hazardous Waste Status

Chemical name	California Hazardous Waste Status		
Manganese	Ignitable powder		
7439-96-5			

# **14. TRANSPORT INFORMATION**

<u>Note</u>	Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.
DOT	Not regulated
IATA	Not regulated
IMDG_	Not regulated

# **15. REGULATORY INFORMATION**

#### International Inventories

Chemical name	TSCA	TSCA Inventory Status	DSL/NDSL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	AICS
Manganese	Х	ACTIVE	Х	Х	Х	Х	Х	Х	Х

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

#### <u>CERCLA</u>

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

Chemical name	CAS No	Weight-%	SARA 313 - Threshold Values %
Manganese - 7439-96-5	7439-96-5	1-5	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	Х	Х	Х
7439-96-5			

#### **16. OTHER INFORMATION**

#### NFPA

HMIS

#### Health Hazards Not determined Health Hazards Not determined

19-Jun-2020 19-Jun-2020 New format

Flammability Not determined Flammability Not determined Instability Not determined Physical hazards Not determined Special Hazards Not determined Personal Protection Not determined

#### **Disclaimer**

Issue Date:

Revision Date: Revision Note:

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**