

Plant-Prod Chelates: Manganese 13% (EDTA)

SECTION 1. IDENTIFICATION

Product Identifier	Plant-Prod Chelates: Manganese 13% (EDTA)
Other Means of Identification	10062, 10063
Product Family	Plant-Prod
Recommended Use	Water Soluble Fertilizer for Plants.
Restrictions on Use	Not for human or animal use.
Supplier Identifier	Master Plant-Prod Inc., 314 Orenda Rd. , Brampton, Ontario, Canada, L6T 1G1, Canada
Emergency Phone No.	CANUTEC, 1-613-996-6666, 24 Hours
Date of Preparation	March 09, 2016

SECTION 2. HAZARD IDENTIFICATION

Classified according to Canada's Hazardous Products Regulations (WHMIS 2015).

Classification

Combustible dust - Category 1

Label Elements

Signal Word:

Warning

Hazard Statement(s):

May form combustible dust concentrations in air.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance:

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Ethylenediaminetetraacetic acid, manganese disodium complex	15375-84-5	90-100	Mn EDTA	

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Move to fresh air. Keep at rest in a position comfortable for breathing. Rinse nose and mouth with water.

Skin Contact

Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Immediately rinse with lukewarm, gently flowing water for 15-20 minutes.

Eye Contact

Rinse the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes, while holding the eyelid(s) open. Remove contact lenses, if present and easy to do. Take care not to rinse contaminated water into the unaffected

eye or onto the face.

Ingestion

Rinse mouth with water. Never give anything by mouth if person is rapidly losing consciousness, or is unconscious or convulsing. Do not induce vomiting.

First-aid Comments

Get medical advice or attention if you feel unwell or are concerned.

Most Important Symptoms and Effects, Acute and Delayed

None known.

Immediate Medical Attention and Special Treatment

Special Instructions

See first aid information above. Note to Physicians: Provide general supportive measures and treat symptomatically.

Medical Conditions Aggravated by Exposure

None known.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

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

Specific Hazards Arising from the Product

Risk of ignition followed by flame propagation or secondary explosions. Avoid accumulation of dust.

In a fire, the following hazardous materials may be generated: smoke containing hazardous combustion products (see Section 10).

Special Protective Equipment and Precautions for Fire-fighters

Wear SCBA and full protective clothing. Standard procedure for chemical fire.

Fire-fighters may enter the area if positive pressure SCBA and full Bunker Gear is worn.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Do not touch damaged containers or spilled product unless wearing appropriate protective equipment. Use the personal protective equipment recommended in Section 8 of this safety data sheet. Eliminate all ignition sources. Use grounded, explosion-proof equipment. Avoid dust formation.

Environmental Precautions

No special precautions are necessary.

Methods and Materials for Containment and Cleaning Up

Avoid generating dust. Sweep up spilled material and dispose of in approved manner. Store recovered product in suitable containers that are: tightly-covered.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid generating dusts. Eliminate heat and ignition sources such as sparks, open flames, hot surfaces and static discharge. Post "No Smoking" signs. Only use where there is adequate ventilation.

Conditions for Safe Storage

Store in the original, labelled, shipping container. Store in a closed container. Store in an area that is: dry, temperature-controlled, secure and separate from work areas. Protect from conditions listed in Conditions to Avoid in Section 10 (Stability and Reactivity).

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Ethylenediaminetetraacetic acid, manganese disodium complex			15 mg/m ³			

Appropriate Engineering Controls

Use local exhaust ventilation and enclosure, if necessary, to control amount in the air.

Individual Protection Measures

Eye/Face Protection

Side-shield safety glasses.

Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots. Nitrile rubber.

Respiratory Protection

In case of dust, vapour or aerosol formation, wear a NIOSH approved air-purifying respirator with an appropriate cartridge. Half mask with a particle filter P2 (EN 143).

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	White granules. Particle Size: Not available
Odour	Odourless
Odour Threshold	Not applicable
pH	6 - 7 (1% solution)
Melting Point/Freezing Point	Not applicable (melting); Not available (freezing)
Initial Boiling Point/Range	Not applicable
Flash Point	Not applicable
Evaporation Rate	Not applicable
Flammability (solid, gas)	Will not burn.
Upper/Lower Flammability or Explosive Limit	Not applicable (upper); >= 40% (estimated) (lower)
Vapour Pressure	Not applicable
Vapour Density (air = 1)	Not applicable
Relative Density (water = 1)	Not available
Solubility	800 g/L in water; Not available (in other liquids)
Partition Coefficient, n-Octanol/Water (Log Kow)	< 0
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	Not applicable (kinematic); Not applicable (dynamic)
Other Information	
Physical State	Solid
Molecular Formula	Not available
Molecular Weight	Not available
Bulk Density	600 - 800 kg/m ³
Surface Tension	Not available
Critical Temperature	Not available

Product Identifier: Plant-Prod Chelates: Manganese 13% (EDTA) - Ver. 1

SDS No.: 0223

Date of Preparation: March 09, 2016

Date of Last Revision: January 29, 2019

Page 03 of 06

Saturated Vapour Concentration Not available

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions of use.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

None expected under normal conditions of storage and use. Dust may form explosive mixture in air.

Conditions to Avoid

None known.

Incompatible Materials

None known.

Hazardous Decomposition Products

Very toxic carbon monoxide, carbon dioxide; corrosive, oxidizing nitrogen oxides.

SECTION 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

Inhalation.

Skin Corrosion/Irritation

Not a skin irritant.

Serious Eye Damage/Irritation

Not an eye irritant.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

May lead to respiratory irritation.

Skin Absorption

Not absorbed through skin.

Ingestion

No information was located.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

No information was located.

Respiratory and/or Skin Sensitization

Not known to be a skin sensitizer.

Carcinogenicity

Not known to cause cancer.

Reproductive Toxicity

Development of Offspring

No information was located.

Sexual Function and Fertility

No information was located.

Effects on or via Lactation

No information was located.

Germ Cell Mutagenicity

No information was located.

Product Identifier: Plant-Prod Chelates: Manganese 13% (EDTA) - Ver. 1

SDS No.: 0223

Date of Preparation: March 09, 2016

Date of Last Revision: January 29, 2019

Page 04 of 06

Interactive Effects

No information was located.

SECTION 12. ECOLOGICAL INFORMATION**Persistence and Degradability**

No information was located.

Bioaccumulative Potential

No information was located.

Mobility in Soil

No information was located.

Other Adverse Effects

There is no information available.

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal Methods**

Dispose of or recycle empty containers through an approved waste management facility.

SECTION 14. TRANSPORT INFORMATION

Not regulated under Canadian TDG regulations. Not regulated under US DOT Regulations. Not regulated under IATA Regulations.

Special Precautions Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION**Safety, Health and Environmental Regulations****Canada****Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)**

All ingredients are listed on the DSL/NDSL.

USA**Toxic Substances Control Act (TSCA) Section 8(b)**

All ingredients are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.

SECTION 16. OTHER INFORMATION

NFPA Rating	Health - 0	Flammability - 0	Instability - 0
SDS Prepared By	MPPI Technical Department		
Phone No.	905-793-8000		
Date of Preparation	March 09, 2016		
Date of Last Revision	January 29, 2019		
Disclaimer	To the best of our knowledge, the information contained herein is accurate. However, neither Master Plant-Prod Inc., nor any of its distributors, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Although certain hazards are described, we cannot guarantee that these are the only hazards that exist. Final determination of suitability of any product is the sole responsibility of the user. All materials may present		

Product Identifier: Plant-Prod Chelates: Manganese 13% (EDTA) - Ver. 1

SDS No.: 0223

Date of Preparation: March 09, 2016

Date of Last Revision: January 29, 2019

Page 05 of 06

unknown hazards and should be used with caution.

Product Identifier: Plant-Prod Chelates: Manganese 13% (EDTA) - Ver. 1
Date of Preparation: March 09, 2016
Date of Last Revision: January 29, 2019

SDS No.: 0223

Page 06 of 06