

Turf Master Chelated Mix**Section 1—Identification**

Product	The Premium Chelated Mix
Manufacturer	Plant Food Systems, Inc
Address:	2827 Union Street, Zellwood, FL 32798/P.O. Box 775, Zellwood, FL 32798
Phone:	(407) 889-7755 (800) 343-7775
24 Hour Emergency	
Contact	CHEM TRAC (800) 424-9300
Uses	Liquid Fertilizer

Section 2—Hazard Identification

Hazard	Product is not hazardous under normal conditions
---------------	--

Section 3—Composition

Ingredients	Components	CAS. No	Classification (GHS-US)
	Magnesium Nitrate	13446-18-9	Skin Irritant 2
	Boron	7440-42-8	Acute Tox. 4 (Oral)
	Iron Sulfate	7720-78-7	Acute Tox. 4 (Oral) Skin Irritant 2
	Manganese Sulfate	7785-87-7	Not determined
	Glucosheptonate	31138-65-5	Skin Irritant 2 Eye Irritant 2A
	Zinc Sulfate	7733-02-0	Acute Tox. 4 (oral) Eye Dam. 1
	Copper Sulfate	7758-99-8	Acute Tox. 3 Skin Irritant 2 Eye Irritant 2A

Section 4—First Aid Measures

Inhalation	Generally not considered hazardous. If vapors or mist cause irritation or distress, remove to fresh air.
Skin Contact	Protect skin from contact. May cause irritation. Flush skin thoroughly with water. If irritation persists, get medical attention.
Eye Contact	Avoid contact with eyes. Flush eyes immediately and thoroughly with water for 15 minutes. If Irritation persists get medical attention.
Ingestion	If ingested, do not induce vomiting, consult a physician immediately.
Chronic Health Hazards	No known chronic health hazards.

Section 5—Fire Fighting Measures

Fire Fighting Procedures	Dry Chemical, Carbon Dioxide, Foam, Water Class BC, ABC Fire Extinguisher
---------------------------------	---

**Section 6—Accidental Release Measure**

Personal Precautions	Avoid splashing. Prevent exposure to spilled material with the use of proper PPE. Avoid breathing mist or vapor.
-----------------------------	--

Section 6—Accidental Release Measure continued

Protective Equipment	PPE should include gloves, goggles, face shield, and level D coverall
Containment	Contain all spills and leaks to prevent discharge into the environment. If spilled, use appropriate absorbent material to absorb the spilled material and flush spilled area with water.

Section 7—Safe Handling and Storage

Precautions for Safe Handling and Storage	Store in a well ventilated cool dry place. Wash thoroughly after handling.
Handling and Storage	Avoid overheating or freezing. Do not mix other materials in container.
Incompatibility	Oxidizers and water reactive materials

Section 8—Exposure Controls/Personal Protection

Copper Sulfate (7758-99-8)		
USA ACGIH	ACGIH TWA (mg/m ³)	1 mg/m ³

Iron Sulfate (7720-78-7)		
USA ACGIH	ACGIH TWA (mg/m ³)	1 mg/m ³

Manganese Sulfate (7785-87-7)		
USA ACGIH	ACGIH TWA (mg/m ³)	0.1 mg/m ³

Boron (7440-42-8)		
Contains no substances with occupational exposure limit values		

Glucoheptonate (31138-65-5)		
Contains no substances with occupational exposure limit values		

Magnesium Nitrate (13446-18-9)		
Contains no substances with occupational exposure limit values		

Engineering Controls	Eyewash facilities should be available
Personal Protective Equipment	Eyes-Chemical safety goggles or safety glasses Hands-Chemical resistant/impervious gloves Respiratory-None required under normal conditions.
Other information	Do not eat, drink or smoke during use

Section 9—Physical and Chemical Properties

Appearance and Odor	Dark Brown Earthy Liquid	Specific Gravity	1.26
Boiling Point	Over 212°F	Molecular Weight	N/A
Freezing Point	<32°F	Water Reactive	N/A
Vapor Density	Estimated Lighter than air	Evaporative Rate	N/A
Gallons per Ton	190	pH	2.7
Solubility in Water	Complete	Flammability	N/A
Flash Point	N/A		

Section 10—Stability and Reactivity

Reactivity	Product is not reactive under normal conditions
Stability	Product is stable under normal conditions
Hazardous Reactions	Hazardous polymerization will not occur

Section 10—Stability and Reactivity-Continued

Conditions to Avoid	Elevated temperatures may cause container to rupture.
Hazardous Decomposition Products	SO ² may evolve at high temperatures. Metal oxides

Section 11—Toxicology Information

Routes of Exposure	Inhalation, ingestion, or skin/eye absorption
Symptoms and Signs of Exposure	Eyes & skin slightly irritating. Inhalation is not generally considered hazardous. Ingestion may irritate or burn throat and may cause nausea or vomiting.
Long Term Effects	No known long term effects.
Toxicity	No limits have been set for this material.
Carcinogen	Has not been classified for its carcinogenic potential.

Section 12—Ecological Information

Water	Low concentrations are not toxic to fish or other aquatic organisms.
-------	--

Section 13—Disposal Considerations

Waste	This material is not considered a hazardous waste. Disposal must be done in accordance with local, state, and federal environmental regulations. Place waste in an appropriate container with correct labeling.
-------	---

Section 14—Transport Information

DOT	Material is not hazardous as defined by 49 CFR 172.101 by the US Department of Transportation.
IMDG	This material is not classified as a Dangerous Good per the IMDG Code.

Section 15 — Regulatory Information

United States-SARA Hazardous Category	This product has been reviewed according to the EPA Hazard Categories promulgated under Section 311 and 312 of Title III of the Superfund Amendments and Reauthorization Act (SARA) and is considered, under applicable definitions, to meet the following categories
	Fire-No Pressure-No Reactive-No Chronic-No

Section 16—Other Information

Date of Revision	May 2015 revision prepared in accordance with 29 CFR 1910.1200 Appendix D to meet Global Harmonization Standards.
Disclaimer	The information contained in this SDS refers only to the specific material designated and does not regulate to any process or use with any other material. The information is furnished free of charge and is based on data believed to be accurate and reliable as of the date hereof. It is intended for use by persons possessing technical knowledge at their own discretion and risk. Since actual use is beyond our control, no warranty, expressed or implied, and no liability is assumed by Plant Food Systems, Inc. in conjunction with the use of this information. Nothing herein is to be construed as a recommendation to infringe any patents. Plant Food Systems, Inc. assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.