

# SAFETY DATA SHEET

Plant Food Systems, Inc.

## Turf Master N plus Iron

### Section 1—Identification

**Product** 12-0-0  
**Manufacturer** Plant Food Systems, Inc  
**Address:** 2827 Union Street, 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

Components	CAS. No	Classification	Percentage
Urea	57-13-6	Skin Irritant 2 Eye Irritant 2B	51%
Iron Sulfate	7720-78-7	Acute Tox. 4 (Oral) Skin Irritant 2	32%
Magnesium Nitrate	13446-18-9	Skin Irritant 2	4%
Manganese Sulfate	7785-87-7	Not determined	6%
Citric Acid	77-92-9	Skin Irritant 2 Eye Irritant 2A	1%
Water	7732-18-5	Not Determined	6%

### 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. Causes irritation. Wash off skin with water.

**Eye Contact** Avoid contact with eyes. Flush Eyes immediately and thoroughly with water for 15 minutes. If Irritation persists get medical attention.

**Ingestion** If swallowed, 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.

**Protective Equipment** PPE should include gloves, chemical type goggles, face shield and level D coverall.

## Section 6—Accidental Release Measure

<b>Containment</b>	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.
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## Section 7—Safe Handling and Storage

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

## Section 8—Exposure Controls/Personal Protection

### Iron Sulfate (7720-78-7)

USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
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### Manganese Sulfate (7785-87-7)

USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup>
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### Magnesium Nitrate (13446-18-9)

Contains no substances with occupational exposure limit values

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

## Section 9—Physical and Chemical Properties

<b>Appearance and Odor</b>	Dark Earthy Brown odorless liquid		
<b>Boiling Point</b>	Over 212°F	<b>Specific Gravity</b>	1.39
<b>Freezing Point</b>	<32°F	<b>Molecular Weight</b>	N/A
<b>Vapor Density</b>	Estimated lighter than air	<b>Water Reactive</b>	N/A
<b>Gallons per Ton</b>	173	<b>Evaporative Rate</b>	N/A
<b>Solubility in Water</b>	Complete	<b>pH</b>	1.5
<b>Flash Point</b>	Not Flammable	<b>Flammability</b>	N/A

## Section 10—Stability and Reactivity

<b>Reactivity</b>	Product is not reactive under normal conditions
<b>Stability</b>	Product is stable under normal conditions
<b>Hazardous Reactions</b>	Hazardous polymerization will not occur
<b>Conditions to Avoid</b>	Elevated temperatures may cause container to rupture
<b>Hazardous Decomposition Products</b>	None

## Section 11—Toxicology Information

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

## Section 12—Ecological Information

Water	Low concentrations are not toxic to fish or other aquatic organisms.
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## 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.
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## Section 14—Transport Information

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

## Section 15 — Regulatory Information

<b>United States-SARA Hazardous Category</b>	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			
	<b>Fire-No</b>	<b>Pressure-No</b>	<b>Reactive-No</b>	<b>Chronic-No</b>

## Section 16—Other Information

<b>Date of Revision</b>	May 2015 revision prepared in accordance with 29 CFR 1910.1200 Appendix D to meet Global Harmonization Standards.
<b>Disclaimer</b>	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.