

SAFETY DATA SHEET

FILE NO.: GF1428 GFC T&O Max
Effective Date: 6/01/2015



Section I - Identification

1.1 Product Identifier

1.1.1 Product Name: GFC T&O Max

1.2 Trade Name and Synonyms: T&O Max (4% Mn, 1% Mg, 3% Fe, 0.02% Zn, 0.02% B), Foliar Micronutrient Fertilizer

1.3 Recommended use and restrictions: Fertilizer for foliar and fertigation use. Follow directions from product label.

1.4 Supplier information:

Manufacturer's Name: Glades Formulating Corporation
Address: PO Box 1690
Belle Glade, FL 33430

Product Information: (561) 996-4200

1.5 Medical Emergency: Chem Trec (800) 424-9300

Section II – Hazard(s) Identification

2.1 OSHA/HCS Status: This material is considered non-hazardous by the OSHA HCS (29 CFR 1910.1200).

2.2 Classification of substance or mixture: Classified as non-hazardous in accordance with current laws.

2.3 GHS Label elements: Not available

2.4 Signal word (GHS-US): Not available

2.5 Hazard Statements (GHS-US): May cause mild eye and skin irritation

2.6 Other Hazards: Not available

2.7 Precautionary Statements:

- a) **Prevention:** Use appropriate personal protective equipment (PPE).
- b) **Response:** IF IN EYES: Rinse with clean water for 15 minutes. If eye irritation persists, seek medical attention. IF ON SKIN: Remove contaminated clothing. Wash with soap and water.
- c) **Storage:** Store in original container out of reach of children.
- d) **Disposal:** Dispose of contents/container in accordance with local/regional/national/international regulations.
- e) **Hazards not otherwise classified:** None known.

Section III – Composition/Information on Ingredients

Component	EXPOSURE LIMITS	ACGIH TLV	OSHA PEL	CAS #
Iron glucoheptonate			NA	
Magnesium glucoheptonate			NA	
Manganese glucoheptonate			NA	
Zinc glucoheptonate			NA	

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Sodium Borate			NA	

Proprietary formulation as allowed by 29CFR 1910.1200(i)

Section IV – First-aid Measures

DESCRIPTION OF FIRST AID PROCEDURES

Ingestion: Drink water if conscious. Do not induce vomiting. Seek immediate medical attention.

Skin: Remove contaminated clothing. Wash with soap and water. Seek medical attention.

Inhalation: No hazard under normal conditions. Move to fresh air.

Eyes: Rinse with clean water for 15 minutes. Seek immediate medical attention.

Section V – Fire-Fighting Measures

5.1 Extinguishing Media: Foam, Water fog, Dry chemical, ABC fire extinguisher

5.2 Fire and Explosion Hazard: This product is non-flammable, and does not support combustion. If heated to decomposition sulfur dioxide fumes may be emitted. Use of SCBA is recommended.

5.3 Special Fire Fight Procedures: Use self contained breathing apparatus and protective equipment.

Section VI – Accidental Release Measures

6.1 Personal precautions, protective equipment, and emergency procedures: Use appropriate personal protective equipment (PPE) i.e. gloves and face shield. Floor may be slippery; use care to avoid falling.

6.2 Environmental precautions: Contain spill immediately with inert materials (e.g. sand, earth). Avoid discharge to natural waters, drains or sewers.

6.3 Methods and materials for clean up and containment: Prevent spillage from entering drinking water supplies or streams. Collect liquid or absorb absorbent material and package for proper disposal.

Section VII – Handling and Storage

7.1 Precautions for Safe Handling: Use appropriate personal protective equipment (PPE) i.e. gloves and face shield.

7.2 Conditions for safe storage, including any incompatibilities: Keep container closed when not in use. Store in sealed original container in a cool, well-ventilated, dry place. Do not stack pallets more than two (2) high. Transfer product using chemical resistant plastic or stainless steel tanks, pumps, valves, etc.

Section VIII – Exposure Controls/Personal Protection

8.1 Occupational exposure limits: Not available.

8.2.1 Ventilation: Adequate ventilation.

8.2.2 Respiratory Protection: Not required.

8.2.3 Skin Protection: Use of protective clothing and impervious gloves is recommended.

8.2.4 Eye Protection: Wear full-face shield or goggles.

8.2.5 Other: Ensure availability of emergency shower, eye wash station, impervious apron and footwear.

Section IX – Physical and Chemical Properties

Appearance & Physical State: Dark, brown opaque liquid

Odor: Sweet, caramel smell

Odor Threshold: Not determined

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pH: Not determined

Melting Point/Freezing Point: Not determined

Initial Boiling Point & Boiling Point Range: Not determined

Flash Point: Not determined

Evaporation rate: Not determined

Flammability: Not determined

Upper/Lower flammability or explosive limits: Not determined

Vapor Pressure: Not determined

Vapor Density: Not determined

Relative density: 1.35 g/L

Solubility: Soluble in water

Partition coefficient (n-octanol/water): Not determined

Auto-ignition temperature: Not determined

Decomposition temperature: Not determined

Viscosity: Not determined

Section X – Stability and Reactivity

Reactivity: This product is stable and non-reactive under normal conditions of use, storage, and transport.

Stability: Stable

Possibility of Hazardous Reactions: Not determined

Conditions to Avoid: Avoid extreme heat and open flames.

Incompatible materials: Avoid mixtures containing calcium, phosphates, or phosphoric acid as insoluble materials will be formed.

Hazardous Decomposition: SO₂ vapors.

Section XI – Toxicological Information

Carcinogenicity: None Currently Listed

Information on likely routes of exposure:

Ingestion: May cause temporary upset stomach or gastrointestinal symptoms

Inhalation: None expected but inhalation may cause mild irritation

Skin Contact: May cause temporary slight irritation and/or redness

Eye Contact: May cause temporary eye irritation

Chronic Effects: Prolonged skin contact may result in drying or itching skin.

Further information: If exposure causes irritation, refer to first aid measures in section 4.

Section XII – Ecological Information

Ecotoxicity: Not determined.

Persistence – degradability: Not determined.

Potential for bioaccumulation: Not determined.

Mobility in soil: Not determined.

Other adverse effects: Not determined.

Section XIII – Disposal Considerations

Disposal methods: Dispose in accordance with current local, state, and federal regulations.

Contaminated packaging: Single use containers may contain product residue. Empty containers should be rinsed prior to disposal in accordance with current local, state, and federal regulations.

Section XIV – Transport Information

This product is not subject to DOT regulations.

Other shipping description: Fertilizing compounds (blended), liquid, NMFC Item 68140 Sub 6, LTL Class 70

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Section XV – Regulatory Information

Sara Hazard Category: This product has been reviewed according to the EPA hazard categories under section 311 and 312 of SARA Title III, 1986, and is considered, under applicable definitions, to meet the following categories:

Hazardous Components at level which require reporting are: None

OSHA Hazard Communications Standards, 29 CFR 1910.1200 – This product is not hazardous.

Other regulations: Not subject to other safety, health, or environmental regulations.

Section XVI – Other Information

The information herein is given in good faith, but no warranty, expressed or implied, is made. Consult Glades Formulating Corporation for more information. It is the user's obligation to determine the conditions of safe use of the product.