MATERIAL SAFETY DATA SHEET

Organic Iron 5% (Chelated Iron Glucoheptonate)

Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Company :	Growth Products, Ltd. P.O. Box 1252 White Plains, NY 10602
Phone Number:	800-648-7626
Chemical Name / Common Name:	Liquid Micronutrient Solution – Iron Glucoheptonate
CAS Number :	Not Applicable – Formulated Mixture

Section 2 – HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS: None. This product does not require labeling.

Section 3 – PHYSICAL DATA

Physical State:	Amber/Reddish Brown Liquid	Evaporation Rate:	Same as Water
Color:	Dark Rust Brown	Boiling Point:	215 Degrees F
Odor:	Slightly Sweet Musty Odor	Freezing Point:	<0 Degrees F
Weight Per Gallon:	10.6# @ 21 Degrees C	Viscosity:	10-20 cps @ 21 Degrees C
Storage Life at 70F:	2 years	Flash Point/Method:	Noncombustible
pH – 21C:	7 - 8	Vapor Pressure:	N/A
Solubility:	Infinitely Miscible		

Section 4 – FIRE AND EXPLOSION HAZARD

Explosion Properties:	Noncombustible
Flammable Limit:	LEL: N/A UEL: N/A
Extinguishing Media:	Does Not Burn
Special Fire Fighting Procedures:	None
Unusual Fire and Explosion Hazards:	None

Section 5 – HEALTH HAZARD INFORMATION

EFFECTS OF OVEREXPOSURE ACUTE (SHORT TERM EXPOSURE):
Liquid contact may cause slight eye irritation and repeated skin exposure may cause some skin irritation

CHRONIC (LONG TERM EXPOSURE):
None known

Section 6 – EMERGENCY AND FIRST AID PROCEDURES

INHALATION:	Not expected to be harmful under normal conditions of use, however if allowed to become airborne, may cause irritation of nose, throat and lungs
EYE CONTACT:	May cause irritation on prolonged or repeated contact
SKIN CONTACT:	May cause irritation on prolonged or repeated contact

Section 7: TOXICITY INFORMATION

ACUTE TOXICITY (LETHAL DOSES)

DERMAL LD $_{50}$:	0.5 ml dose level for rabbits
ORAL LD $_{50}$:	5000 mg/kg dosage level for rats

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ACUTE TOXICITY (IRRITATION, SENSITIZATION)

EFFECTS TO EYES: No corneal or iridal effects were noted at a dose of 0.1 ml for rabbits

EFFECTS TO INGESTION: Non toxic or pathogenic

EFFECTS TO SKIN: Moderate irritation, reversible within 7 days

CARCINOGENICITY DATE: N/E

Section 8: REACTIVITY DATA

STABITITY: Stable

CONDITIONS TO AVOID: N/A

HAZARDOUS DECOMPOSITION PRODUCTS OF DRY MATERIAL: CO, CO_2, NH_3, Aldehydes (including Formaldehyde), particulate matter and other organic compound.

HAZARDOUS POLMERIZATION: Will not occur

Section 9: SPECIAL PROTECTION INFORMATION

PROTECTIVE GLOVES: Gloves

EYE PROTECTION: Use goggles if contact is likely.

OTHER PROTECTION: N/A

RESPIRATORY PROTECTION OR REQUIRED VENTILATION:
Not normally needed. Where air contaminants can exceed acceptable criteria use NIOSH/MSHA approved respiratory protection equipment.

Section 10 – SPILL AND LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
Prevent product from entering drinking water supplies. Collect liquid or solidify with absorbent material and package for disposal according to local, state, and federal regulations.

WASTE DISPOSAL PRECEDURES:
This product is likely to have a pH less than 8.5 and would not be considered a federal hazardous waste according to EPA regulation 40CFR 261. Dispose in accordance with state and local regulation.

REPORTABLE QUANTITY UNDER CERCLA: N/A

Section 11 – STORAGE AND HANDLING INFORMATION

STORAGE TEMPERATURE:

MAX 100° F **MIN** 32° F **INDOOR** ✓ **OUTDOOR** X **REFRIG.** X

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:
Not harmed by freezing. Thaw frozen fertilizer slowly and stir before using. Store in a cool place. Rotate stock in storage to use oldest first.

Section 12 – TRANSPORTATION INFORMATION

DOT UN STATUS: This material is not regulated hazardous material for transportation

OTHER PRECAUTIONS:
Read entire label before using

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ABBREVIATIONS: **N/E – NOT ESTABLISHED** **N/A – NOT APPLICABLE**

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