

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 LD₅₀: 0.5 ml dose level for rabbits

ORAL LD₅₀: 5000 mg/kg dosage level for rats

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

STABILITY: Stable
CONDITIONS TO AVOID: N/A
HAZARDOUS DECOMPOSITION PRODUCTS OF DRY MATERIAL: CO, CO₂, NH₃, 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

This information is furnished without warranty, expressed or implied, except that is accurate to the best knowledge of Growth Products, Ltd. The data on this sheet relates only to the specific material designated herein. Growth Products, Ltd. assumes no legal responsibility for use or reliance upon this data.

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