



MATERIAL SAFETY DATA SHEET  
*Plant-Pro/Palm Pro 12-1.7-9.6*

**Section 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

<b>Company :</b> Growth Products, Ltd	<b>Mfg.:</b> Growth Products, Ltd 80 Lafayette Avenue White Plains, NY 10603	<b>Distribution in Australia:</b> Fernland Agencies 31-35 Paulger Flat Road Yandina, QLD 4561
<b>Phone Number:</b>	914-428-1316	1800 672 794
<b>Chemical Name / Common Name:</b>	Liquid Micronutrient Solution	

**Section 2: COMPOSITION/INFORMATION ON INGREDIENTS**

Active Ingredient(s) Hazardous Inert Ingredients(s)	CAS#	ACGIH TLV	ADG PEL
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**Section 3: HAZARDS IDENTIFICATION**

<b>EMERGENCY OVERVIEW:</b>	This product is not considered hazardous and does not require labeling.
<b>POTENTIAL HEALTH EFFECTS:</b>	This product may irritate eyes and skin upon prolonged or repeated contact. Over-exposure by inhalation may cause respiratory tract irritation. Ingestion of large amounts of this substance may produce irritation of the gastro-intestinal tract, characterized by burning and diarrhea.

**POTENTIAL ENVIRONMENTAL EFFECTS:** While this product is highly soluble in water, it has no known direct toxicity to most organisms living in aquatic and terrestrial environments.

**Section 4: FIRST AID MEASURES**

<b>EYE CONTACT:</b>	Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes, while holding the eyelid(s) open. If irritation occurs and persists, obtain medical attention.
<b>SKIN CONTACT:</b>	If irritation does occur, flush with lukewarm water. If irritation persists, obtain medical attention.
<b>INHALATION:</b>	Not expected to be harmful under normal conditions of use, however if allowed to become airborne, may cause irritation of nose, throat and lungs. If symptoms are experienced remove source of contamination or move victim to fresh air. Obtain medical attention.
<b>INGESTION:</b>	Have victim rinse mouth thoroughly with water. DO NOT INDUCE VOMITING.

**Section 5: FIRE FIGHTING MEASURES**

<b>FIRE AND EXPLOSION HAZARDS:</b>	Product is not considered a fire or explosion hazard.
<b>FLAMMABLE LIMIT:</b>	LEL: N/A UEL: N/A
<b>EXTINGUISHING MEDIA:</b>	Use any means of extinction appropriate for surrounding fire conditions such as water spray, carbon dioxide, dry chemical or foam. Cool any containers that are exposed to heat or flames by the application of water streams until well after the fire has been extinguished.
<b>FIRE FIGHTING PROCEDURES:</b>	This material will not burn.
<b>FLASHPOINT AND METHOD:</b>	N/A

## Section 6: ACCIDENTAL RELEASE MEASURES

### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Prevent product from entering drinking water supplies. If water is used, prevent runoff or dispersion of excess liquid by diking and absorbing with non-combustible absorbent such as clay, sand and soil. Vacuum, shovel or pump waste material, including absorbent, into drum and label contents for disposal.

## Section 7: HANDLING AND STORAGE

### STORAGE TEMPERATURE:

MAX 38° C MIN 0° C INDOOR  OUTDOOR  REFRIG.

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Not harmed by freezing. Thaw frozen fertilizer slowly and stir before using. Store in a dry, cool and well-ventilated area. Always practice good personal hygiene. Refrain from eating, drinking, or smoking in work areas. Thoroughly wash hands before eating, drinking, or smoking in appropriate designated areas. Store in original containers only. Rotate stock in storage to use oldest first. Keep out of the reach of children.

## Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

### PROTECTIVE GLOVES:

Gloves

### EYE PROTECTION:

Use goggles if contact is likely.

### PROTECTIVE CLOTHING:

Where there is a large scale use of this material with significant potential for worker contact, long-sleeved clothing or coveralls, chemical resistant gloves, and/or safety glasses with side shields may be necessary.

### RESPIRATORY PROTECTION OR REQUIRED VENTILATION:

Not normally needed. Where air contaminants can exceed acceptable criteria use NIOSH/MSHA approved respiratory protection equipment.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Clear/Hazy Liquid	Evaporation Rate:	Same as Water
Appearance:	Green/Amber	Boiling Point:	99 Degree C
Odor:	Slightly Musty Odor	Freezing Point:	>0 Degree C
Weight Per Liter:	11# @ 21 Degrees C	Viscosity:	1 - 10 cps @ 21 Degree C
Storage Life at 21C:	>18 months	Flash Point/Method:	Noncombustible
pH – 21C:	8	Vapor Pressure:	N/A
Solubility:	Completely Miscible		

## Section 10: STABILITY AND REACTIVITY

### STABILITY:

This material is stable and not considered reactive under normal temperatures and pressures. Hazardous polymerization or runaway reactions will not occur.

### INCOMPATIBLE MATERIALS:

Avoid contact with strong bases, strong oxidizing agents and metals. Product is corrosive to most.

### HAZARDOUS DECOMPOSITION:

CO, CO<sub>2</sub>, NH<sub>3</sub>, Aldehydes (including Formaldehyde), particulate matter and other organic compound.

### HAZARDOUS POLMERIZATION:

Material is not known to polymerize.

## Section 11: TOXICOLOGICAL INFORMATION

### ACUTE TOXICITY (LETHAL DOSES)

**DERMAL LD<sub>50</sub>:** N/E

**ORAL LD<sub>50</sub>:** N/E

### 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 12: ECOLOGICAL INFORMATION

Not classified as hazardous.

## Section 13: DISPOSAL CONSIDERATIONS

This product is likely to have a pH of 6 and would not be considered a federal hazardous waste according to EPA regulation 40CFR 261. Do not wash down drain. Recover and place material in a suitable container for intended use or disposal. Dispose in accordance with state and local regulation.

**REPORTABLE QUANTITY UNDER CERCLA:** N/A

## Section 14: TRANSPORT INFORMATION

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

**MARINE POLLUTANT:** No

**OTHER PRECAUTIONS:** Read entire label before using.

## Section 15: REGULATORY INFORMATION

Not regulated under US EPA SARA Title 3, Sec. 302, 311, 312, or 313

## Section 16: OTHER INFORMATION

Please note: Fernland Agencies Pty Ltd. believes that the information and recommendations contained here-in are accurate as of the date hereof. The information provided herein applies only to the specific product designated and may not be valid where said product is used in combination with any other material or in any process. No warranty of fitness for any particular purpose, warranty of merchantability, or any other warranty, expressed or implied, is made concerning the information provided.

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

N/A – NOT APPLICABLE