

# MATERIAL SAFETY DATA SHEET

## *Essential® Plus 1-0-1*

### Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Company : Growth Products, Ltd.  
80 Lafayette Avenue  
White Plains, NY 10603  
Phone Number: 800-648-7626  
Chemical Name / Common Name: Organic Liquid Fertilizer Solution

### Section 2 – HAZARDOUS INGREDIENTS

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

### Section 3 – PHYSICAL DATA

Physical State:	Thick Solution	Evaporation Rate:	Same as Water
Color:	Brown	Boiling Point:	About 210 Degrees F
Odor:	Sweet/Salty Organic Smell	Freezing Point:	18 Degrees F
Weight Per Gallon:	8.99# @ 21 Degrees C	Viscosity:	54 cps @ 21 Degrees C
Storage Life at 70F:	2 years	Flash Point/Method:	Noncombustible
pH – 21C:	4.5	Vapor Pressure:	N/A
Solubility:	Completely 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<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

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**EFFECTS TO SKIN:** Moderate irritation, reversible within 7 days

**CARCINOGENICITY DATE:** N/A

**Section 8: REACTIVITY DATA**

**STABILITY:** Stable

**CONDITIONS TO AVOID:** N/A

**HAZARDOUS DECOMPOSITION PRODUCTS OF DRY MATERIAL:** CO, CO<sub>2</sub>, NH<sub>3</sub>, 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**  **REFRIG.**

**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**