

# MATERIAL SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION

### 8-16-8+Micros

Early Corn Starter

#### Manufacturer / Supplier

Terralink Horticulture Inc.  
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Abbotsford, BC. Canada  
V2S 7M1  
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**CEDA Emergency Response Team**  
**24 Hr. Emergency Telephone Numbers**  
**604-540-4100 Chemical Spills: 1-800-663-3456**

## 2. HAZARDOUS INGREDIENTS

<u>Hazardous Ingredients</u>	<u>%</u>	<u>CAS#</u>	<u>TLV</u>	<u>LD<sub>50</sub></u> (oral)	<u>LC<sub>50</sub></u>
<b>Zinc 9% Chelate</b>	0.7				
<b>Solubor</b> Disodium octoborate tetrahydrate	0.9	12280-03-4	N/AP	(rat)2550mg/kg	(rat)>2mg/m <sup>3</sup>

### Non-hazardous Ingredients

<b>10-34-0</b> Liquid Ammonium Polyphosphate		N/AV	N/AV	(rat)>2000mg/kg	N/AV
<b>KTS 0-0-25</b> Potassium thiosulphate		10294-66-3	N/AV	(rat)>5000mg/kg N/AV	N/AV
Water		7732-18-5	N/AV	(rat)>90mL/kg	N/AV
<b>23-0-0 Urea</b>		57-13-6	Not est.	(rat) 14,300mg/kg	N/AV
<b>Humic Acid 6%</b>		N/AV	N/AV	N/AV	N/AV

## 3. PHYSICAL DATA

**Physical state:** Liquid  
**Specific gravity:** N/AP  
**Boiling point:** N/AP  
**Melting point:** N/AP  
**Appearance and Odour:** N/AP  
**Odour Threshold (ppm):** N/AP  
**Vapour Density:** N/AP  
**Vapour Pressure (mmHg):** N/AP  
**pH:** N/AP  
**Evaporation Rate:** N/AP  
**Coefficient of Water/Oil Distribution:** N/AP

#### 4. FIRE AND EXPLOSION DATA

**Flammability under which conditions:** Not flammable

**Means of Extinction:** Use extinguishing media appropriate for surrounding fire.

**Flashpoint:** N/AP

**Autoignition Temperature:** N/AP

**Hazardous Combustion Products:** N/AV

**Upper Flammable Limit (% by volume):** N/AV

**Lower Flammable Limit (% by volume):** N/AV

**Explosion Data – Sensitivity to Impact:** N/AV

**Explosion Data- Sensitivity to Static Discharge:** N/AV

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#### 5. REACTIVITY DATA

**Chemical Stability:** Normally stable

**Incompatibility with Other Substances:** Can be slightly reactive with metals. Very reactive with strong alkaline substances like caustic soda, producing ammonia gas and heat with the possibility of the mixture boiling over and splashing. Can also be slightly to reactive with oxidizing agents. Very slightly to slightly reactive with metals. Alkalis and moisture. Can be highly corrosive to aluminum, zinc and copper. Slightly corrosive to steel and 304 stainless steel. May also be slightly reactive with reducing agents, combustible materials, organic materials and metals.

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#### 6. TOXICOLOGICAL PROPERTIES

##### Routes of Entry

**Skin Contact:** Y **Skin Absorption:** N **Eye Contact:** Y **Inhalation:** Y **Ingestion:** Y

**Effects of Acute Exposure to Product:** This product may irritate eyes and skin upon prolonged or repeated contact. Over-exposure by inhalation may cause respiratory tract irritation. Ingestion of this substance may produce irritation of the gastro-intestinal tract, characterized by burning and diarrhea.

**Effects of Chronic Exposure to Product:** None known

**Exposure Limits:** No

**Irritancy:** No

**Sensitization:** No

**Carcinogenicity:** No

**Reproductive Toxicity:** No

**Teratogenicity:** No

**Mutagenicity:** No

**Synergistic Products:** None known

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## 7. PREVENTIVE MEASURES

### Personal Protective Equipment

**Gloves: Y    Respirator: N    Eye: Y    Footwear: Y    Clothing: Y    Other**

If Y above specify

**Gloves:** Rubber, Nitrile

**Eye:** Dust or splash-proof chemical safety goggles or face shield

**Respirator:** for operations where the exposure limit may be exceeded, a NIOSH/MSHA approved high efficiency particulate respirator is recommended.

**Clothing:** Rubber or Nitrile gloves, long sleeve shirts and pants or coveralls, boots, and/or other resistant protective clothing. Have a safety eyewash fountain readily available in the work area.

**Engineering Controls:** Use local exhaust ventilation to control dust or mist. Supply sufficient replacement air to make up for air removed by exhaust system, process of personnel enclosure and control of process conditions.

**Leak and Spill Procedures:** Restrict access to area until completion of clean-up. Provide adequate personal protective equipment and ensure clean-up is conducted by trained personnel only. Ventilate area. Remove any reactive chemicals from the area.

**Waste Disposal:** According to local, provincial and federal government requirements

**Handling Procedures and Equipment:** Avoid inhalation and eye contact. Wear rubber or Nitrile gloves, chemical splash goggles and dust mask. Do not mix with incompatible materials. (see Section 5)

**Storage Requirements:** Keep in a cool, dry and well-ventilated area. Store away from incompatible materials

**Special Shipping Information:** Normal shipping procedures    **PIN:** N/AV

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## 8. FIRST AID MEASURES

**Inhalation:** Remove source of contamination or have victim move to fresh air. Obtain medical advice immediately

**Ingestion:** Not normally ingested. If irritation or discomfort occurs, obtain medical advice immediately.

**Skin Contact:** Flush with lukewarm, gently flowing water until the chemical is removed. Remove contaminated clothing, shoes and leather goods (e.g. watchbands, belts, etc.). Obtain medical attention if pain or irritation develops or persists. Completely decontaminate clothing, shoes and leather goods before re-use or discard.

**Eye Contact:** Do not let victim rub eyes. Immediately flush eye(s) with lukewarm, gently running water for at least 20 minutes, while holding the eyelid(s) open. If irritation persists, obtain medical advice.

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**9. PREPARATION INFORMATION**

Prepared by:

Regulatory Affairs  
Terralink Horticulture Inc.

Telephone Number(s):  
604-864-9044  
800-661-4559

Date: March 3, 2009.



Class C – Oxidizing Material



Class D, Div. 2 – Materials Causing Other Toxic Effects

**Disclaimer:**

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