

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Grape Premix

Manufacturer / Supplier
 Terralink Horticulture Inc.
 464 Riverside Road,
 Abbotsford, BC. Canada
 V2S 7M1
 Ph: 604-864-9044
 Fax: 604-864-8418



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>CAS#</u>	<u>TLV</u>	<u>LD₅₀</u> (oral)	<u>LC₅₀</u>
Boron (Solubor)	.1	1330-43-4	2mg/m ³	(rat)1200mg/kg	(rat)>2040mg/m ³
Zinc Chelate	.7				
Ammonium hydroxide		1336-21-6		(human) 43mg/kg	N/AV
Citric Acid		77-92-9		(mouse) 5040 mg/kg	N/AV
Zinc Oxide		1314-13-2	10mg/m ³	(mouse) 7950 mg/kg	(mouse) 2500mg/m ³
Zinc EDTA		15954-98-0		(mouse) 85 mg/kg	N/AV
Water		7732-18-5	Not est.	(rat)>89,840mg/kg	N/AV

Non-hazardous Ingredients

46-0-0 Urea		57-13-6	Not est.	(rat) 14,300mg/kg	N/AV
Water		7723-18-5	Not est.	(rat)>89,840mg/kg	N/AV
20-20-20			Not est.	N/AV	N/AV
Potassium Nitrate		7757-79-1			
Urea		57-13-6			
Ammonium Phosphate		7722-76-1			
Mono Potassium Phosphate		7722-76-1			
Iron EDTA		15708-41-5			
Manganese EDTA		15375-84-5			
Copper EDTA		14025-15-1			
Zinc EDTA		14025-21-9			
Boric Acid		10043-35-3			
Sodium Molybdate		N/AV			
Blue dye		3486-30-4			
Magnesium sulphate		10034-99-8	N/AV	N/AV	N/AV

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3. PHYSICAL DATA

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

4. FIRE AND EXPLOSION DATA

Flammability under which conditions: none known
Means of Extinction: Use extinguishing media appropriate for surrounding fire.
Flashpoint: N/AP
Autoignition Temperature: N/AV
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

5. REACTIVITY DATA

Chemical Stability: Normally stable
Incompatibility with Other Substances: None
Hazardous Decomposition Products: None known

6. TOXICOLOGICAL PROPERTIES

Routes of Entry

Skin Contact: Y **Skin Absorption:** N **Eye Contact:** Y **Inhalation:** N **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 may produce irritation of the gastrointestinal tract, characterized by burning and diarrhea.

Effects of Chronic Exposure to Product: none known

Exposure Limits: N/AV
Irritancy: skin, eyes, inhalation
Sensitization: N/AP
Carcinogenicity: N/AP
Reproductive Toxicity: N/AP
Teratogenicity: N/AP
Mutagenicity: N/AP
Synergistic Products: N/AP

7. PREVENTIVE MEASURES

Personal Protective Equipment

Gloves: Y **Respirator:** Y **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

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

8. FIRST AID MEASURES

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

Ingestion: Have conscious person drink several glasses of water or milk. Induce vomiting. NEVER give an unconscious person anything to drink. Obtain medical attention.

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: July 27, 2009.



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

Disclaimer:

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