



MATERIAL SAFETY DATA SHEET

21-7-10 60% CRN Field Nursery Blend

MSDS Date of Issue: 10/7/08

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 21-7-10 60% CRN Field Nursery Blend
PRODUCT CODE(S): 7127703

MANUFACTURER: TerraLink Horticulture Inc.
ADDRESS: 464 Riverside Road, Abbotsford, BC. Canada V2S 7M1
PHONE: 604-864-9044

24 HOUR CEDA EMERGENCY PHONE: 604-540-4100
CHEMICAL SPILLS: 800-663-3456

PRODUCT USE: Fertilizer
PREPARED BY: Regulatory Affairs
REVISION DATE: November 9, 2010.

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

<u>REPORTABLE INGREDIENT(S)</u>	<u>CAS NO.</u>	<u>EXPOSURE LIMITS OSHA PEL-TWA</u>	<u>% VOL/WT</u>
Sipernat Quartz silica	14808-60-7	0.025 mg/m ³	5.0
Terra Green Montmorillonite	1302-78-9	3 mg/m ³	10.0
Quartz (crystalline silica)	14808-60-7	0.025 mg/m ³	
Frit 503G Micro Mix			3.5
Lead Sulfate	7446-14-2	2mg/m ³	0.05mg/m ³
Sodium Borate	11130-12-4		
Copper Dioxide	1317-39-1	N/AV	
Copper Sulfate	7758-98-7	1mg/m ³	
Iron Oxide	1332-23-7	5mg/m ³	
Iron Sulfate	7720-78-7	1mg/m ³	
Manganese Oxide	1344-43-0	0.2mg/m ³	
Manganese Sulfate	7785-87-7	0.2mg/m ³	
Molybdc Oxide	1313-27-5	N/AV	
Zinc Oxide	1314-13-2	2mg/m ³	
Zinc Sulfate	7733-02-2	Not est.	

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SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

CAUTION: KEEP OUT OF REACH OF CHILDREN

ROUTES OF ENTRY: Eyes, skin, respiratory

ACUTE HEALTH EFFECTS

EYES: Solid particles are likely irritating as "foreign objects". Some tearing, blinking and mild temporary pain may occur as the solid material is rinsed from the eye(s) by tears.

SKIN: Dusts and mists are not expected to be irritating based on pH

INGESTION: Ingestion in very large amounts may cause nausea and vomiting. Ingestion is not a typical route of occupational exposure.

INHALATION: In general, high concentrations of dust may cause coughing and mild. Temporary irritations following short-term exposure. Quartz can have potentially serious respiratory effects following long-term inhalation (one year or more). See Chronic below.

CHRONIC HEALTH HAZARDS: Repeated exposure may cause Silicosis, which usually develops gradually over 20 years or more of exposure. Prolonged or repeated exposure to fine airborne crystalline silica dust may cause severe scarring of the lungs. Inhalation of quartz has also been associated with a number of other, less well characterized harmful effects including effects on the kidney, liver, spleen and immune system disorders.

CARCINOGENICITY: The International Agency for Research on Cancer (IARC) has concluded that crystalline silica in the form of quartz or cristobalite from occupational sources should be classified as carcinogenic to humans. This conclusion was drawn on a relatively large number of human population studies that together provide sufficient evidence in humans for the carcinogenicity of inhaled crystalline silica in the form of quartz or cristobalite. In many of these studies, lung cancer risks were elevated and could not be explained by other factors.

SECTION 4: FIRST AID MEASURES

EYES: 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.

SKIN: 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.

INGESTION: Not normally ingested. **NEVER** give anything by mouth if victim is rapidly losing consciousness, is unconscious or convulsing. If irritation or discomfort occurs obtain medical advice immediately.

INHALATION: Silica quartz and Terragreen are cancer hazards. If high airborne concentrations are present, take proper precautions to ensure your own safety before attempting to rescue (e.g. wear appropriate protective equipment). Remove source of contamination or have victim move to fresh air. Obtain medical advice immediately.

SECTION 5: FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Does not burn. Use extinguishing media for surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES: NAb

UNUSUAL FIRE AND EXPLOSION HAZARDS: NAb

HAZARDOUS DECOMPOSITION PRODUCTS: None known for blend.

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: 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.

SECTION 6 NOTES: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

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SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Avoid inhalation and eye contact. Wear rubber or Nitrile gloves, chemical splash goggles and a NIOSH/MSHA approved high efficiency particulate respirator. Do not mix with incompatible materials (see Section 10). **DO NOT** dry-sweep crystalline silica. Whenever possible, wet down with a water spray to minimize the amount of dust or use a vacuum equipped with HEPA filters. Restrict access to area until completion of clean-up. Provide adequate personal protective equipment and ensure clean-up is conducted by trained personnel only. Remove any reactive chemicals from the area. Store in cool dry place away from children, feed and food products, and seed.

OTHER PRECAUTIONS: May be toxic to fish and other aquatic organisms. Do not contaminate water supplies by handling and storage of product. Drift or runoff may adversely affect aquatic invertebrates and non-target plants.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING / VENTILATION 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.

RESPIRATORY PROTECTION: For operations where the exposure limit may be exceeded, a NIOSH/MSHA approved high efficiency particulate respirator is recommended.

EYE PROTECTION: Dust or splash-proof chemical safety goggles or face shield.

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

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Multi-coloured granules

ODOR: NAb

PHYSICAL STATE: solid

pH AS SUPPLIED: NAb

pH (Other): NAb

BOILING POINT: NAb

MELTING POINT: NAb

FREEZING POINT: NAb

VAPOR PRESSURE (mmHg): NAb

VAPOR DENSITY (AIR = 1): NAb

SPECIFIC GRAVITY (H₂O = 1): NAb

EVAPORATION RATE: NAb

BASIS (=1): NAb

SOLUBILITY IN WATER: NAb

PERCENT SOLIDS BY WEIGHT: NAb

PERCENT VOLATILE: NAb

VOLATILE ORGANIC COMPOUNDS (VOC): NAb

WITH WATER: NAb **LBS/GAL**

WITHOUT WATER: NAb **LBS/GAL**

MOLECULAR WEIGHT: NAb

VISCOSITY: NAb

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Normally stable

CONDITIONS TO AVOID (STABILITY): NAb

INCOMPATIBILITY (MATERIAL(S) TO AVOID): Strong oxidizing agents, Hydrofluoric acid, Magnesium, Manganese trifluoride, Sodium, Xenon hexafluoride, strong acids. Contact between this product and turpentine, hydrofluoric acid, vegetable oil or other unsaturated organic compounds (such as fish oil) may generate heat and/or fire. Do not use this product with these compounds.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: NAb

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HAZARDOUS POLYMERIZATION: NAb

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SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: NAb

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Drift or runoff may adversely affect non-target plants. Do not apply directly to water. Do not contaminate water when disposing of equipment wash water. Do not apply when weather conditions favour drift from target area.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of according to local, provincial and federal government requirements.

RCRA HAZARD CLASS: NA

SECTION 14: TRANSPORT INFORMATION

CANADIAN TDG DESCRIPTION (Road and Rail): Not regulated for transport by Road/Rail in Canada. Contact manufacturer for updates to transport information.

SECTION 15: REGULATORY INFORMATION

WHMIS HAZARD CLASS: Class D, Div. 2B – Materials Causing Other Toxic Effects (TOXIC) 

SECTION 15 NOTES: This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

SECTION 16: OTHER INFORMATION

ADDITIONAL INFORMATION:

Abbreviations used throughout the MSDS are: NA = Not available
NAb = Not available for blend
NAp = Not applicable
N/E = None established

Company references utilized in preparation of the MSDS.

DISCLAIMER:

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