

11-22-14+7S+1Fe30%MU

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Planet Turf 11-22-14+7S+1Fe 30% MU

Turf Fertilizer



Manufacturer / Supplier

Made By Terralink Horticulture Inc.
464 Riverside Road,
Abbotsford, BC. Canada
For: Planet Turf USA
6422 E 2nd Ave
Spokane Vly, WA 99212

CEDA Emergency Response Team
24 Hr. Emergency Telephone Numbers
604-540-4100 Chemical Spills: 1-800-663-3456

2. HAZARDOUS INGREDIENTS

Terra Green	3.5				
Montmorillonite		1302-78-9	3 mg/m ³	N/AV	N/AV
Quartz (crystalline silica)		14808-60-7	0.025 mg/m ³	N/AV	N/AV

Non-hazardous Ingredients

Methylene 80	9011-05-6	N/AV	(rat)>5000mg/kg	N/AV
4.5%Urea Nitrogen				
14.0% slowly available water soluble Nitrogen				
21.5% Water insoluble Nitrogen				
SulphateofPotash	7778-80-5	10mg/m ³	6600 mg/kg (rat)	N/AV
Iron Oxysulfate	not listed	not listed	N/AV	N/AV
Manganese Oxide	7722-64-7	N/AV	(rat) 1090 mg/kg	N
Mono-ammoniumPhosphate	7722-76-1	10 mg/m ³	rat) >5,000 mg/kg	/AV
				N/AV
Ammonium Sulphate	7783-20-2	10 mg/m ³	(rat) 2840mg/kg	N/AV

3. PHYSICAL DATA

Physical state: Solid
Specific gravity: N/AP
Boiling point: Does not boil.
Melting point: N/AP
Appearance and Odour: N/AV
Odour Threshold (ppm): N/AV
Vapour Density: N/AP
Vapour Pressure (mmHg): Negligible

pH: N/AV

Evaporation Rate: solid

Coefficient of Water/Oil Distribution: N/AV

4. FIRE AND EXPLOSION DATA

Flammability under which conditions: N/AV

Means of Extinction: Does not burn. Use extinguishing media appropriate to the surrounding fire conditions.

11-22-14+7S+1Fe30%MU

Flashpoint: N/AP

Autoignition Temperature: N/AP

Hazardous Combustion Products:

Urea: Nitrogen oxides, ammonia, biuret, cyanuric acid

Potassium sulphate: may release very toxic, corrosive sulphur dioxide, other sulphur oxides and potassium oxides.

Upper Flammable Limit (% by volume): N/AP

Lower Flammable Limit (% by volume): N/AP

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

Terra Green: physical 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.

Mono-ammonium phosphate: Strong oxidizing agents. Prolonged contact may cause oxidation of unprotected metals
STRONG OXIDIZING AGENTS (e.g. sodium hypochlorite or sodium chlorate) -cause decomposition to occur. Risk of fire and explosion

STRONG ACIDS (e.g. sulphuric acid) - may react violently

STRONG BASES (e.g. sodium hydroxide) - may react vigorously and release ammonia gas.

METHENAMINE – causes slow evolution of formaldehyde

MAGNESIUM – release of ammonia occurs **Hazardous**

Decomposition Products:

Potassium sulphate: Thermal decomposition at high temperatures may produce very toxic or corrosive sulphur dioxide or other sulphur oxides.

Mono-ammonium phosphate: During extremely high temperature fire conditions, the product may reach melting point and decompose to release phosphorous oxides, nitrogen oxides and ammonia. May be mildly corrosive to steel, gray iron and aluminum. Aqueous solutions are not corrosive to certain grades of stainless steel. Not corrosive to nickel chromium-molybdenum alloys.

6. TOXICOLOGICAL PROPERTIES

Routes of Entry

Skin Contact: no **Skin Absorption:** no **Eye Contact:** YES **Inhalation:** YES **Ingestion:** no

Effects of Acute Exposure to Product:

Effects of Chronic Exposure to Product:

Terra Green: 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, the liver, the spleen and immune system disorders.

Exposure Limits: Not established

Irritancy: YES; contact with eyes / skin

Sensitization: No **Carcinogenicity:**

Terra Green: 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 the basis of 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.

Reproductive Toxicity: No

Teratogenicity: No
Mutagenicity: No
Synergistic Products: N/AV
11-22-14+7S+1Fe30%MU

7. PREVENTIVE MEASURES

Personal Protective Equipment

Gloves:Y **Respirator:** N **Eye:** Y **Footwear:** N **Clothing:** Y **Other** If Y above specify

Gloves: Rubber, Nitrile

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

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 **PIN:** N/AV

8. FIRST AID MEASURES

Inhalation: Remove source of contamination or have victim move to fresh air. Obtain medical advice immediately Terra Green is a cancer hazard. 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

Ingestion: If large amount is ingested, give 2-3 glasses of water and induce vomiting.

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.

9. PREPARATION INFORMATION

Prepared by:

Regulatory Affairs Terralink
Horticulture Inc.

Telephone Number(s): 604-864-
9044

800-661-4559 Date: January 1, 2018 Disclaimer:

.....
Terralink Horticulture Inc. provides the information contained herein in good faith, but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose. TERRALINK HORTICULTURE INC.

MAKES NO REPRESENTATIONS OR WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATIONS SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, TERRALINK HORTICULTURE INC. WILL NOT BE RESPONSIBLE FOR DAMAGEES RESULTING FROM THE USE OF OR RELIANCE UPON THIS INFORMATION.

.....