

Material Safety Data Sheet

Identity: PHC™ Turf Saver

Last Update: August 11, 2008

Section I -- Manufacturer

Plant Health Care, Inc.
440 William Pitt Way
Pittsburgh, PA 15238

Emergency Phone #: 800-421-9051
Phone # for Information: 412-826-5488

Section II -- Hazardous Ingredients/Identity Information

Potentially Hazardous Components	%	OSHA PEL	NIOSH	ACGIH
Humate (Leonardite, natural mineral)	37%	1.5 mg/m ³	-	0.1 mg/m ³
Crystalline Quartz	0.7% - 2.4%	0.1 mg/m ³ (respirable)	50µg/m ³ (respirable)	
Sulfate of Potash		----	----	---
Calcium phosphate monobasic	4.5%	----	----	---
Nuisance Dusts				
Respirable (TWA)		5 mg/m ³		10 mg/m ³
Total (TWA)		15 mg/m ³		10 mg/m ³
Select strains of soil bacteria	0.08%	---	---	---
Phytoestrogenic compounds	0.015%	---	---	---

Section III -- Physical/Chemical Characteristics

Boiling Point:	NA	Specific Gravity:	NA
Vapor Pressure:	NA	Melting Point:	NA
Vapor Density:	NA	Evaporation Rate:	NA

Solubility in Water: Insoluble

Appearance and Odor: Mixture of brown, earthen granules and powders. Mild odor.

Section IV -- Fire and Explosion Hazard Data

Flash Point: No Data **Flammable Limits; LEL:** No Data; **UEL:** No Data

Extinguishing Media: Water, fog, foam

Special Fire Fighting Procedures: Do not stir up dust with hose streams, as dust cloud is flammable and may be explosive. Wear respiratory protection to avoid breathing dust and smoke. Beware of slippery floors if product becomes wet.

Unusual Fire and Explosion Hazards: May ignite if dust is suspended in air in the presence of an ignition source. Prevent build-up of explosive dust concentrations.

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Section V -- Reactivity Data

Stability: Chemically stable

Conditions to Avoid: Avoid stirring up dust. Avoid ignition of dust.

Incompatibility (Materials to avoid): None Known

Hazardous Decomposition or Byproducts: When burned: CO, CO₂, SO₂, Hydrocarbons, small amounts of sulfuric acid.

Hazardous Polymerization: Will Not Occur

Section VI -- Health Hazard Data

Route(s) of Entry: Inhalation--Yes

Skin--Yes

Ingestion--Yes

Eyes--Yes

Health Hazards (Acute and Chronic):

Acute: May irritate skin or eyes; could result in allergic response and/or infection if product comes in direct contact with eyes, lungs, or open wounds. Product dust may be irritating to nasal and respiratory passages, and/or lungs if inhaled.

Chronic: This product produces fine dusts, which may cause delayed respiratory disease if inhaled over a prolonged period of time, continuously or intermittently. Potentially allergenic. This product contains a small amount (0.015% by weight) of an insoluble isoflavanoid compound classed as a phytoestrogen, which can mimic the effects of the hormone estrogen in mammals. Avoid prolonged skin contact to preclude the possibility of skin absorption of the hormonal compound.

Carcinogenicity: This product may contain a small amount of crystalline silica. IARC Monographs concludes that there is "limited evidence" of the carcinogenicity of crystalline silica to humans. IARC Classification 2A. See above under "Health Hazards, Chronic".

Signs and Symptoms of Exposure: Excess inhalation of dust may result in shortness of breath and reduced pulmonary function. Irritation and/or infection (redness, swelling, pain or itching) could result if product contacts eyes or open wounds. Allergic reaction to skin may cause reddening, itching, swelling and rash. See above under "Health Hazards, Chronic".

Medical Conditions Generally Aggravated by Exposure: Individuals with any pulmonary and/or respiratory disease such as asthma, bronchitis, etc. should not be exposed to dust. Persons with compromised immune systems, such as those with AIDS, or those undergoing chemotherapy, or receiving anti-rejection drugs should consult with their physician before handling microbial products.

Emergency and First Aid Procedures: If material is ingested, drink water, call a physician. If inhaled, remove to fresh air, give oxygen if needed; give artificial respiration if needed, get medical attention. Watch for respiratory infection. In case of skin contact, wash area with soap and water. In case of contact with an open wound, wash with soap and water, and apply an over-the-counter approved external antiseptic. Watch for possible infection. If material gets into eyes, flush with water, see physician if discomfort persists, or if irritation or infection develops.

Other Health Related Data: This product contains a small amount (0.015% by weight) of an

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insoluble isoflavanoid compound classed as a phytoestrogen, which can mimic the effects of the hormone estrogen in mammals. Avoid prolonged skin contact to preclude the possibility of skin absorption of the hormonal compound.

Section VII -- Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled: Avoid stirring up excessive dust. Wet down spilled material lightly before sweeping to prevent producing airborne dusts. Then sweep up and collect excess material with adequate ventilation, and use the product as directed. Then rinse area with soap and water. If spilled in residential living quarters or dining area, clean area with water containing a disinfectant. Beware of slippery floors when material becomes wet, or if spillage occurs in wet areas. Residue will not harm drains or sewers or the environment.

Waste Disposal Method: Sweep up excess material and apply to grass, trees, or ornamental plants as originally intended. Material is biodegradable, and does not contain pesticides.

Precautions to be Taken in Case Material is Released or Spilled: Avoid stirring up excessive dust. Avoid ignition of dust. Avoid inhaling dust.

Other Precautions: Cover all open wounds with a sterile dressing and protective cover prior to handling. Use nonporous gloves when handling. Wash hands after handling. Use normal hygiene practices. If spilled on clothes, wash separately from other clothes.

Section VII -- Control Measures

Respiratory Protection: Dust mask.

Ventilation: Any means adequate to avoid buildup of concentrations above the TLV or PEL, or of explosive airborne concentrations, such as mechanical ventilation, hood, good engineering controls, etc.

Protective Gloves: Rubber, latex, vinyl, or other impervious gloves.

Eye Protection: Safety goggles recommended if eye contact is likely.

Other Protective Clothing or Equipment: Apron recommended.

Work/Hygienic Practices: The bacteria contained in this product are strains of typically harmless soil and water bacteria, and do not cause infections under normal circumstances. However, reasonable precautions are in order. Handle as you would rich, dark soil or compost: keep it out of your mouth, eyes, lungs, and broken skin. Wash hands after handling. Wash clothes that are heavily soiled with product separately from other clothes.
