Material Safety Data Sheet

Identity: **PHC for Turf 15–0–3** **Last Update: May 20, 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 REL
Common **soil bacteria** beneficial for horticulture	0.02%	--	--
Sulfate of Potash			
Ferrous sulfate	6%	1 mg/ m^3 (as Fe) (ACGIH TLV)	
Nuisance Dust:			
Respirable		5 mg/m^3	
Total		15 mg/m^3	

Section III -- Physical/Chemical Characteristics

Boiling Point: NA
Vapor Pressure: NA
Vapor Density: NA
Solubility in Water: Soluble
Specific Gravity: NA
Melting Point: NA
Evaporation Rate: NA
Appearance and Odor: brown granules, slight odor like dog food.

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 may be flammable. Wear respiratory protection to avoid breathing dust and smoke.

Unusual Fire and Explosion Hazards: May burn if dust is suspended in air in the presence of an ignition source.

Section V -- Reactivity Data

Stability: Chemically stable **Conditions to Avoid:** Avoid stirring up dust. Avoid ignition of dust.

Incompatibility (Materials to avoid): None Known

Section V -- Reactivity Data (continued)

Hazardous Decomposition or Byproducts: When burned: CO, CO_2, SO_2, 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; may result in allergic response or infection if product comes in direct contact with eyes or open wounds. Product dust may be irritating to nasal and respiratory passages, and/or lungs if inhaled. Avoid breathing dust. **Ingestion**: Ingestion of large amounts could causes nausea with vomiting. Low toxicity in small quantities but larger dosages may cause nausea, vomiting, diarrhea, and black stool. Pink urine discoloration is a strong indicator of iron poisoning. Liver damage, coma, and death from iron poisoning has been recorded with high doses of ferrous sulfate, a component (approx 6%) of this product. Smaller doses of ferrous sulfate are much more toxic to children.

Chronic: This product produces common bacteria, which may cause delayed allergic response in some people if inhaled over a prolonged period of time, continuously or intermittently. Potentially allergenic. Avoid breathing dust. Wash hands after handling. Chronic ingestion can lead to liver damage.

Carcinogenicity: None known.

Signs and Symptoms of Exposure: Excess inhalation of dust may result in shortness of breath, and reduced pulmonary function. Infection may result if product contacts open wounds. Can cause skin or eye irritation or allergic response with redness, itching, swelling, rash. See above under "Health Hazards, Chronic".

Medical Conditions Generally Aggravated by Exposure: Persons with pre-existing skin disorders or eye problems, or impaired liver, kidney or respiratory function may be more susceptible to the effects of the substance. Individuals with any pulmonary and/or respiratory disease such as asthma, bronchitis, etc. should not be exposed to dust. Contact with open wounds could potentially result in infection. Persons with compromised immune systems, such as those with advanced AIDS, or taking antirejection drugs, or undergoing chemotherapy, should contact their physician before handling bacterial products.

Emergency and First Aid Procedures: Product is not intended to be ingested. If ingested, induce vomiting and contact a physician. If inhaled, remove to fresh air, give oxygen if needed; give artificial respiration if needed; get medical attention. 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 use an over-the-counter approved external antiseptic. See physician if infection develops. If material gets into eyes, flush with water, see physician if discomfort persists or if infection develops.

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. If spilled in residential living quarters or dining area, clean area with water containing a disinfectant. Residue will not harm drains or sewers.
Waste Disposal Method: Collect excess 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. Wear gloves when handling.

Other Precautions: Persons with compromised immune systems, or anyone who would be sensitive to ordinary bacteria, should contact their physician before handling bacterial products. This would include individuals such as those with advanced AIDS, or those taking anti-rejection drugs, or those undergoing chemotherapy. 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 nonporous gloves

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

Other Protective Clothing or Equipment: Apron recommended.

Work/Hygienic Practices: Wash hands after handling. Use normal hygiene practices. If spilled on clothes, wash separately. 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.