Material Safety Data Sheet

Identity: PHCTM Compete Plus Last Update: September 22, 2008

Section I -- Manufacturer

Plant Health Care, Inc. Emergency Phone #: 800-421-9051 440 William Pitt Way Phone # for Information: 412-826-5488

Pittsburgh, PA 15238

Section II -- Hazardous Ingredients/Identity Information

Hazardous Components OSHA PEL ACGIH TLV

Live Bacteria and fungi beneficial to plants.

No reportable quantities of hazardous ingredients are present.

No toxic chemicals subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 are present.

Section III -- Physical/Chemical Characteristics

Boiling Point:NASpecific Gravity:NAVapor Pressure:NAMelting Point:>200 FVapor Density:heavier than airEvaporation Rate:NA

Solubility in Water: fully dispersible

Appearance and Odor: tan powder, characteristic 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, alcohol foam, CO₂, dry chemical

Special Fire Fighting Procedures: Fire fighters should wear eye protection, butyl rubber boots, gloves, and a NIOSH/MSHA approved self-contained breathing apparatus. Clean and disinfect gear after exposure.

Unusual Fire and Explosion Hazards: Not a fire or explosion hazard when stored under normal conditions. *As with any burnable powder, explosive ignition could result if powder is dispersed in air near an ignition source.

Section V -- Reactivity Data

Stability: Chemically stable **Conditions to Avoid:** High heat sources, sparks, open flame. **Incompatibility (Materials to avoid):** strong oxidizing agents, strong acids, alkali, and strong reducing agents. Organic solvents deactivate the bacteria.

Hazardous Decomposition or Byproducts: Burning may release noxious fumes and gases such as carbon monoxide, nitrous oxides, acetic acid, sulfuric acid, sulfur dioxide, or other toxic compounds depending on the other combustion sources.

Hazardous Polymerization: Will Not Occur

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Section VI -- Health Hazard Data

Route(s) of Entry: Inhalation--yes Skin--yes Ingestion--yes Eyes--yes

Health Hazards (Acute and Chronic):

<u>Acute</u>: <u>Skin contact</u> may result in mild irritation. Direct <u>contact with eyes or open wounds</u> could result in irritation or infection. Avoid skin and eye contact. <u>Inhalation</u> of dust could introduce the bacteria or fungi spores contained in the product into the respiratory tract, where allergic responses may occur in sensitive individuals.

<u>Chronic</u>: Prolonged inhalation may lead to respiratory tract irritation.

Note: The bacteria used in this product are common soil microbes, and are <u>not</u> considered pathogenic, that is, they are not typically involved in causing disease in plants, animals, or man. However, persons with a compromised immune system, such as those taking anti-rejection drugs, persons with AIDS, or people receiving chemotherapy should contact their physician before handling bacterial products, and of course, be cautious to avoid inhalation of or contact with bacteria-laden product dust or aqueous mist.

Carcinogenicity: No Data

Signs and Symptoms of Exposure: None expected.

Medical Conditions Generally Aggravated by Exposure: May result in irritation or infection if product comes in direct contact with eyes or open wounds. May provoke asthmatic response in persons with asthma who are sensitive to airway irritants. Risk of both respiratory or wound infection is increased for persons with weakened immune systems. Persons with compromised immune systems, such as those with advanced AIDS, or those undergoing chemotherapy, or taking anti-rejection drugs, or anyone prone to developing infections or allergic reactions from exposure to ordinary bacteria should avoid this product.

Emergency and First Aid Procedures: Eyes: Flush with water for at least 15 minutes. If irritation or infection develops, call a physician.

<u>Skin:</u> Wash affected area with soap and water. Antibacterial soap is recommended. If material contacts wounded or broken skin, treat wound with an antiseptic to prevent infection. If irritation or infection develops, consult a physician. Remove and launder contaminated clothing before reuse. Launder contaminated clothing separately from other clothes.

<u>Inhalation</u>: If inhaled, move to fresh air. If difficulty in breathing persists, administer oxygen, and get immediate medical attention. Watch for possible development of respiratory distress due to allergic reaction or infection.

<u>Ingestion</u>: Seek medical attention. Do not induce vomiting.

Section VII -- Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled: Avoid stirring up dust. Sweep up and collect excess material while wearing an approved dust mask, and use the product as directed. If dissolved product is spilled, contain and collect the spill to prevent discharge to surface streams or storm sewers. Then use the product as directed, or dry the product for proper disposal.. If spill occurs in living or dining quarters, clean and rinse the spill area with water containing a disinfectant. Beware of slippery floors when material becomes wet, or if spillage

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occurs in wet areas. Wear eye protection.

Waste Disposal Method: If possible, the dissolved product should be dried before disposal. Disposal must be in accord with federal, state, and local regulations

Precautions to be Taken in Handling or Storage: Avoid stirring up dust. Use local exhaust. Do not freeze. Avoid skin contact. Do not breath dust, mist, or fumes. Protect against eye contact.

Other Precautions: Wash hands after handling. Use normal hygiene practices. If spilled on clothes, wash separately from other clothes.

Section VII -- Control Measures

Respiratory Protection: Approved dust mask, (as needed.)

Ventilation: Use local exhaust for liquid dissolved material, and filtered exhaust for dry, dusty material. Do not breathe dusts, mists, or fumes. Avoid unnecessary skin contact.

Protective Gloves: Rubber, latex, vinyl, or any gloves without pores.

Eye Protection: Safety goggles or face shield recommended if eye contact is possible.

Other Protective Clothing or Equipment: Coveralls, apron, gloves, boots as necessary to prevent skin contact. Clean clothing should be worn daily to avoid possible long-term buildup of the product leading to chronic overexposure.

Other: Open wounds or disruptions in the skin should be covered with a chemical-resistant patch to minimize absorption risks and infection risks.

Work/Hygienic Practices: Wash hands after handling. If material contacts wounded or broken skin, was affected area with antibacterial soap and water. Treat wound with an antiseptic to prevent infection. The bacteria contained in this product are strains of common soil and water microbes, including strains of *Bacillus*, *Streptomyces*, and *Trichoderma* fungi. Reasonable hygienic precautions are in order. Handle as you would rich, dark soil or compost: keep it out of your mouth, eyes, lungs, and broken skin. Persons who are prone to complications from exposure to ordinary bacteria or fungi (i.e., immune compromised individuals) should contact their physician before handling microbial products. Wash hands after handling. If spilled on clothes, wash separately from other clothes. Clean clothing should be worn daily.