

Material Safety Data Sheet

Identity: PHC 14-0-2

Last Update: July 17, 2009

Section I -- Manufacturer

Plant Health Care, Inc.
235 Kappa Drive
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	%	--	--
Muriate of Potash (potassium chloride)	3.5%		
Nuisance Dust:			
Respirable		5 mg/m ³	
Total		15 mg/m ³	

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: Soluble
Appearance and Odor: brown granules, slight 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 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

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Section V -- Reactivity Data (continued)

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

Health: 1 – Slight Flammability: 1 - Slight Reactivity: 0 - None Contact: 1 - Slight

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

Health Hazards (Acute and Chronic):

Acute: May be mildly 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. Contains potassium chloride (KCl) at a low level of 3.5%. (Potassium chloride Oral LD50: 1500 mg/Kg Mouse) Ingestion of large doses of potassium chloride may produce weakness and circulatory problems, and may affect the heart. Maximal nontoxic oral dose of KCl in humans varies from 200 mg to 1000 mg of potassium/kg/day depending upon efficiency of individual excretory mechanism; lower doses sometimes cause impairment of renal function as shown by reduced inulin, and urea clearance.

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.

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 exposure. 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; get medical attention if needed. 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, but excess product can pollute surface water.

Waste Disposal Method: Collect excess and apply to grass, trees, or ornamental plants as originally intended. Material is biodegradable, and does not contain pesticides. Keep fertilizer products out of surface waters.

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. Keep fertilizer products out of surface waters, as algae blooms can result.

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 thoroughly after handling, and particularly before smoking, eating or using toilet facilities. 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.
