

# Material Safety Data Sheet

**Identity:**      **PHC 3-4-4** for Azaleas and Rhododendrons      **Last Update:** Dec 23, 2009

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## *Section I -- Manufacturer*

Plant Health Care, Inc.      **Emergency Phone #:**      800-421-9051  
285 Kappa Drive, Suite 100      **Phone # for Information:**      412-826-5488  
Pittsburgh, PA 15238

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## *Section II -- Hazardous Ingredients/Identity Information*

Potentially Hazardous Components	%	OSHA PEL	NIOSH REL
Common <b>soil bacteria</b> beneficial for horticulture	0.02%	--	--
Sulfate of Potash	5%	--	
Ferrous sulfate heptahydrate	<1%		
Sulfur	<1%		
Magnesium oxide	<1%		
Magnesium sulfate	<1%		
Nuisance Dust:			
Respirable		5 mg/m <sup>3</sup>	
Total		15 mg/m <sup>3</sup>	

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## *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:** Mostly Insoluble  
**Appearance and Odor:** brown granules, slight odor similar to dog food.

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## *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 burnable. Wear respiratory protection to avoid breathing dust and smoke.

**Unusual Fire and Explosion Hazards:** Dust may ignite if suspended in air in the presence of an ignition source.

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## *Section V -- Reactivity Data*

**Stability:** Chemically stable

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**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<sub>2</sub>, SO<sub>2</sub>, Hydrocarbons, small amounts of sulfuric acid.

**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):**

**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. Significant ingestion will likely cause diarrhea and intestinal discomfort, as well as possible irritation to the mouth and esophagus.

**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". Significant ingestion will likely cause diarrhea and intestinal discomfort, as well as possible irritation to the mouth and throat.

**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 advanced AIDS, or taking anti-rejection drugs, or undergoing chemotherapy, should contact their physician before handling bacterial products.

**Emergency and First Aid Procedures:** Product is not very toxic, but is not intended to be ingested. If ingested, treat symptoms 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.

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### *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:** Wash hands after handling. Use normal hygiene practices. If spilled on clothes, wash separately from other clothes. Persons with compromised immune systems, such as those with advanced AIDS, or taking anti-rejection drugs, or undergoing chemotherapy, systems should contact their physician before handling bacterial products.

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### *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. Wash hands after handling.

**Note to Veterinarians:** Product is not intended to be eaten. If a pet consumes large amounts of the product, intestinal irritation may result in vomiting and diarrhea. However, symptoms are expected to subside in a day. Treat symptoms and observe for intestinal discomfort, as well as possible irritation to the mouth and esophagus. Product contains iron and magnesium, although the product stimulates intestinal evacuation, which is likely to preclude excess mineral absorption.

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