

PLANT HEALTH CARE, Inc.
 EMERGENCY CONTACT: 1-800-421-9051
 1-412-826-5488, x103
 ProAct

MATERIAL SAFETY DATA SHEET

ProAct

SECTION 1..... PRODUCT AND COMPANY IDENTIFICATION.....

Product Trade Name: **ProAct**
 Company: Plant Health Care, Inc.
 440 William Pitt Way
 Pittsburgh, PA 15238
 (412) 826-5488
 EPA Registration: 71771-3.
 Chemical Name: Not Applicable.
 Common Name: Not Applicable

SECTION 2..... SAFETY INFORMATION ON INGREDIENTS.....

MATERIAL	CAS #	OSHA PEL	ACGIH TLV
Harpin $\alpha\beta$ protein (active ingredient)		None Established	None Established
Potassium phosphate dibasic	7758-11-4	None Established	None Established
Potassium phosphate monobasic	7778-77-0	None Established	None Established
Sodium Thiosulfate; Pentahydrate	10102-17-7	None Established	None Established
or Anhydrous	7772-98-7	None Established	None Established

SECTION 3..... HAZARDS IDENTIFICATION.....

Ingestion: Minimal Hazard.
 Eye Contact: Minimally irritating.
 Skin Contact: Minimally irritating.
 Inhalation As Dust: Large quantities may cause irritation of the respiratory tract and/or coughing.
 Other Toxic Effects: N/A.

SECTION 4..... FIRST AID MEASURES.....

IF IN EYES: Flush eyes with plenty of water. Call a physician if irritation persists.
 IF ON SKIN: Wash with plenty of soap and water. Get medical attention if irritation persists.
 IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration and get medical attention.

SECTION 5..... FIRE FIGHTING MEASURES.....

Flash Point (Method): N/A.
 Flammable Limits (Vol. % in air): N/A.
 Auto-ignition Temperature: N/A.
 Extinguishing Media: Water.
 Unusual Fire and Explosion Hazards: None known.

SECTION 6..... ACCIDENTAL RELEASE MEASURES.....

Sweep up and dispose of in compliance with all federal, state and local laws.

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SECTION 7.....HANDLING AND STORAGE

Store in original sealed container in an area not accessible to children or unauthorized persons. Keep products away from sunlight, moisture and heat. After opening, use promptly. Do not contaminate food, water or feed by handling and storage.

SECTION 8.....EXPOSURE CONTROL/PERSONAL PROTECTION

Protective Clothing: Waterproof gloves, long sleeve shirt, pants or overalls, shoes and socks.

Respiratory Protection: Particulate dust mask.

Eye Protection: Chemical goggles or safety glasses with side shields recommended.

Ventilation: Use product outdoors or in a well-ventilated area.

SECTION 9.....PHYSICAL AND CHEMICAL PROPERTIES

pH: 6.0-8.5 @ 22°C.

Boiling Point: N/A.

% Volatile: Unknown.

Melting Point: Unknown.

Evaporation Rate: N/A.

Freezing Point: N/A.

Solubility in Water: Soluble.

Bulk Density: ca. 0.47 g/mL.

Vapor Pressure @ 25°C: N/A.

Appearance and Odor: Tan/blue-colored granules, no discernable odor.

SECTION 10.....STABILITY AND REACTIVITY

Stability: Stable.

Conditions to Avoid: None known.

Incompatibility: None known.

Hazardous Decomposition Products: None known.

SECTION 11.....TOXICOLOGICAL INFORMATION

TOXICITY DATA:

Rat: Oral LD₅₀ > 5050 mg/kg.

Rat: Dermal LD₅₀ > 5050 mg/kg.

Rat: Inhalation 4 hr. LC₅₀ > 0.83 mg/L (max. achievable air concentration).

Rabbit: Dermal Irritation: Non-irritant.

Rabbit: Eye Irritation: Non-irritant.

No known incidents of hypersensitivity.

SECTION 12.....ECOLOGICAL INFORMATION

ECOTOXICITY DATA:

Cladoceran (*Daphnia*): EC₅₀ = 1473 mg/L; NOEC = 626 mg/L.

Honeybee: No observed toxicity at 13 µg a.i. per bee.

A closely related harpin protein (harpin_{EA}) is classified as practically non-toxic to birds and fish.

SECTION 13.....DISPOSAL CONSIDERATIONS.....

Reseal in original container and dispose of in accordance with all federal, state and local laws.

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SECTION 14..... TRANSPORT INFORMATION

DOT Proper Shipping Name: Not subject to DOT Hazardous Material regulations as found in 49 CFR Part 171-180.

DOT Hazard Classification: N/A.

DOT Labeling Requirements: N/A.

SECTION 15..... REGULATORY INFORMATION

Hazardous Substance: N/A.

Reportable Quantity: N/A.

SECTION 16..... OTHER INFORMATION

Plant Health Care, Inc. believes that the information and recommendations contained herein are accurate as of the date hereof. The information provided herein applies only to the specific product designated and may not be valid where said product is used in combination with any other material or in any process. It is the user's responsibility to determine the suitability of the information for their purposes. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY, OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED HEREIN.

Prepared by: Plant Health Care, Inc. Effective Date: January 5, 2009