

MATERIAL SAFETY DATA SHEET

N-HIBIT[®] HX-209

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

Product Trade Name: N-Hibit HX-209
Company: Plant Health Care, Inc.
2626 Glenwood Ave, Suite 350
Raleigh, NC 27526
919-926-1600
EPA Registration No.: 71771-3
Chemical Name: Harpin $\alpha\beta$ protein (active ingredient)
Common Name: Wettable Dry Granule Commercial Seed Treatment

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

<u>MATERIAL</u>	<u>CAS #</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Harpin $\alpha\beta$ protein (active ingredient)	None	Not Established	Not Established
Other ingredients	Various	Not Established	Not Established

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

Ingestion: Minimal hazard
Eye Contact: Minimally irritating
Skin Contact: Minimally irritating
Inhalation: Large quantities may cause irritation of the respiratory tract and/or coughing
Other Toxic Effects: None known

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

If Ingested: Call a poison control center or doctor immediately for treatment. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.
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): Not applicable
Flammable Limits (Vol % in air): Not applicable
Auto-ignition Temperature: Not applicable
Extinguishing Media: Water
Fire and Explosion Hazards: None known

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

Contain spill. Sweep up and dispose of in compliance with applicable federal, state and local laws.

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:	Water-proof gloves, long sleeve shirt and pants, shoes and socks
Respiratory Protection:	None required
Eye Protection:	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 at 22°C
Boiling Point:	Not applicable
% Volatile:	Not applicable
Melting Point:	Unknown
Evaporation Rate:	Not applicable
Freezing Point:	Not applicable
Solubility in Water:	Soluble
Bulk Density:	ca. 0.5 g/mL
Vapor Pressure @ 25°C:	Not applicable
Appearance and Odor:	Tan dry granule, no discernible odor

SECTION 10..... STABILITY AND REACTIVITY

Stability:	Stable
Conditions to Avoid:	None known
Incompatibility:	None known
Hazardous Decomposition:	None known

SECTION 11..... TOXICOLOGICAL INFORMATION

Oral LD ₅₀ (rat)	>5050 mg/kg bw
Dermal LD ₅₀ (rat)	>5050 mg/kg bw
Inhalation LC ₅₀ (rat)	>0.83 mg/L (max. achievable concentration)
Dermal Irritation (rabbit)	Non-irritant
Eye Irritation (rabbit)	Non-irritant
Hypersensitivity	None known

SECTION 12..... ECOLOGICAL INFORMATION

EC ₅₀ (aquatic invertebrate)	1473 mg/L; NOEC 626 mg/L
EC ₅₀ (freshwater fish)	Unknown
Oral LD ₅₀ (bobwhite quail)	Unknown

SECTION 13..... DISPOSAL CONSIDERATIONS

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

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: Not determined
DOT Labeling Requirements: Not determined

SECTION 15.....REGULATORY INFORMATION.....

Hazardous Substance: Not determined
Reportable Quantity: Not determined

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: June 12, 2012