



1. IDENTIFICATION

Product name: BYSI-N Peat+

Product use: Soybean seed inoculant

Other information: Peat based inoculant products containing live culture of nitrogen-fixing *Rhizobium* bacteria

Supplier: Lallemand Plant Care, a business unit of Lallemand Specialties, Inc.

6120 West Douglas Avenue
Milwaukee, Wisconsin
53218
United States

Emergency phone number: 414-464-6440

2. HAZARD IDENTIFICATION

Appearance: Dark Brown Powder or Granules

Physical State: Powder or Granules

Odor: Slight, earthy odor

Classifications: The chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

3. COMPOSITION/INGREDIENT INFORMATION

Contains naturally occurring Rhizobacterium and growth enhancement compounds. These are symbiotic nitrogen-fixing bacteria, to be applied as a seed treatment or infurrow at seed planting, to specific legume crops (not a plant food product).

4. FIRST-AID MEASURES

General Advice: Provide this SDS to medical personnel for treatment.

Eye Contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists: Get medical advice/attention.

Skin Contact: Wash off immediately with plenty of water. Take off contaminated clothing. Wash contaminated clothing before reuse.

Inhalation: Remove exposed individual(s) to fresh air for 20 minutes. Consult a physician/poison center if individual's condition declines or if symptoms persist.

Ingestion: Do NOT induce vomiting. Rinse mouth. Get medical attention if you feel unwell.

MOST IMPORTANT SYMPTOMS AND EFFECTS: May cause eye, skin and/or respiratory tract irritation.

NOTE TO PHYSICIAN: Treat Symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media: Not determined.

Specific Hazards Arising from the Chemical: Product is not flammable.

Explosion Data

Protective equipment and precautions for fire fighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURE

Personal precautions, protective equipment and emergency procedures

Personal precautions: Use personal protective equipment as required.

Environmental precautions: See Section 12 for Ecological information.

Methods and material for containment and clean up

Method for Containment: Prevent further leakage if safe to do so.

Methods for Clean-Up: Keep in suitable closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling: Wash thoroughly after handling. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing.

Conditions for safe storage including any incompatibilities: Keep containers tightly closed in a dry cool and well ventilated place. No restrictions on storage with other products.

Incompatible Materials: Some seed-applied chemicals, including fungicides, may be harmful to the bacteria in this product. See product label for further information on the use of fungicides or other chemicals in conjunction with seed treatment.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines: Please follow exposure guidelines for inert or Nuisance dust: OSHA - PEL - 15mg/m³ Cal OSHA PEL - 10mg/m³

Appropriate engineering controls: Apply technical measures to comply with the occupational exposure limits.

Individual protection measures:

Eye/Face Protection: Wear eye/face protection.

Skin/Body Protection: Refer to 29 CFR 1910.138 for appropriate skin and body protection.

Respiratory Protection: NIOSH approved respiratory protection for nuisance dusts if needed. Refer to 29 CFR 1910.134 for respiratory protection requirements.

General Hygiene Considerations: Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Physical State: Solid

Appearance: Dark brown powder/granular

Color: Dark brown

Odor: Earthy odor

Odor Threshold: Not determined

<u>Property</u>	<u>Values</u>
pH:	6.5-7.4
Melting Point:	Not determined
Boiling Point/Boiling Range:	Not determined
Flash Point:	Not determined
Evaporation Rate:	Not determined
Flammability (Solid, Gas):	Not determined
Upper Flammability Limits:	Not determined
Lower Flammability Limits:	Not determined
Vapor Pressure:	Not determined
Vapor Density:	Not determined
Specific Gravity:	0.6
Water Solubility:	Not determined
Solubility in other solvents:	Not determined
Partition Coefficient:	Not determined
Auto-ignition Temperature:	Not determined
Decomposition Temperature:	Not determined
Kinematic Viscosity:	Not determined
Dynamic Viscosity:	Not determined
Explosive Properties:	Not determined
Oxidizing Properties:	Not determined

10. STABILITY AND REACTIVITY

Reactivity: Not reactive under normal conditions.

Chemical Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: None under normal processing.
Hazardous Polymerization Hazardous Polymerization does not occur.

Conditions to Avoid: Incompatible Materials.

Hazardous Decomposition Products: Oxides of carbon.

11. TOXICOLOGY INFORMATION

Product Information

Eye Contact: Direct contact with eyes may cause temporary irritation.

Skin Contact: May cause temporary irritation on skin contact.

Inhalation: Dusts of this product may cause irritation of the nose, throat and respiratory tract.

Ingestion: May cause discomfort if swallowed.

Information on physical, chemical and toxicological effects

Symptoms: Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization: Not a skin sensitizer.

Carcinogenicity: The table below indicates whether each agency has listed any ingredient as a carcinogen. However, the product as a whole has not been tested.

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document.

ATEmix (oral): > 5,000 mg/kg

ATEmix (dermal): > 5,000 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity: This product contains bacterial strain(s) that occur(s) naturally in soil.

Persistence/Degradability: Not determined

Bioaccumulation: Not determined

Mobility: Not determined

Other Adverse Effects: Not determined

13. DISPOSAL CONSIDERATIONS

Waste treatment Methods

Disposal of Wastes: Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging: Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

Note: Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT: Not regulated as dangerous goods

IATA: Not regulated as dangerous goods

IMDG: Not regulated as dangerous goods

15. REGULATORY INFORMATION

International Inventories

CERCLA: This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

SARA 313: Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulation, Part 372.

CWA (Clean Water Act): This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

U.S. State Regulations

U.S. Right-to-Know Regulations: This product does not contain any substances regulated under applicable state right-to-know regulations.

16. OTHER INFORMATION

NFPA

Health Hazards: Not determined

Flammability: Not determined

Instability: Not determined

Special Hazards: Not determined

HMIS

Health Hazards: Not determined

Flammability: Not determined

Physical Hazards: Not determined

Personal Protection: Not determined

Issue Date: 1/12/16

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.