

Material Data Safety Sheet Rhizobium Inoculants (Peat)

Section 1 Product & Company Identification

Product Names: N-CHARGE, N-CHARGE-S, N-DURE, PRIMO⁶³², ACCOLADE-P and GUARD-N

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

Chemical Formula: Mixture

Manufacturer: INTX Microbials, LLC

506 N. 2nd Street

Kentland, IN 47951

Emergency Telephone: 325-597-2256/219-474-5510

Monday-Friday, 8:00am-4:30pm CST

After Hours: 817-905-0343

Section 2 Ingredient Information

Hazardous Ingredient/ CAS Number/ OSHA PEL/

ACGIH TLV/ ACGIH STEL

(Small amounts of quartz area naturally-occurring component of the carrier substrate)

Contains naturally-occurring Rhizobacterium species(s).

These are symbiotic nitrogen-fixing bacteria, to be applied as a seed treatment or in-furrow at seed planting, to specific legume crops (not a plant food product). See product label for specific crop information, application rates and methods. Not for food, feed or drug use.

Section 3 Hazards Identification

Emergency Overview: There are no known health effects caused by the Rhizobium bacteria contained in this product.

Primary Entry Route: Oral (swallowing)

Acute Effects (Signs and Symptoms of Overexposure):

Eyes: Dust may cause mechanical irritation of eye.

Skin: No known hazard.

Inhalation: Inhalation of large amounts of dust may cause discomfort.

Ingestion: No known hazard.

Chronic Effects: Chronic inhalation of quartz dust causes lung disease.

Medical Conditions Aggravated by Exposure: Respiratory disease.

Target Organs: Lungs

Carcinogenicity: Quartz is listed as a carcinogen by NTP and IARC.

HMIS: Health-0, Flammability-0, Reactivity-0

Section 4 First Aid Measures

Eyes: Flush eyes with water for at least 15 minutes. Get medical attention if irritation persists.

Skin: Wash with soap and water.

Inhalation: Remove person to fresh air. Get medical attention if irritation persists.

Ingestion: No treatment necessary.

Section 5 Fire Fighting Measures

Flash Point: None

Autoignition Temp.: Not determined

Explosive Limits: LEL:Not Applicable UEL:Not Applicable

Extinguishing Media: Use media suitable for the surrounding fire

Unusual Fire or Explosion Hazards: None known.

Fire fighting Instructions: No Special requirements.

Section 6 Accidental Release Measures

Large Spill/Leak Procedures: Contain spill and recover for us or disposal.

Small Spills: Spilled liquid may cause slippery residue on hard floors.

Flush spill area with water to wash away any slippery residue.

Section 7 Storage and Handling

Storage Requirements: Store in original container in a cool, dry place.

Avoid repeated freeze/thaw cycles. Shake well before use. Open package only when ready to use. Use before expiration date printed on package.

Handling Precautions: No special handling requirements.

Follow normal hygiene and housekeeping standards for agricultural products.

Section 8 Exposure Controls/Personal Protection

Ventilation: Special ventilation is not required for the normal handling and use of this product when following the label instructions.

Protective Clothing/Equipment: Dust proof goggles are recommended when working in dusty conditions.

Respirator: Wear a dust mask when working in dusty conditions.

Contaminated Equipment: Clean application equipment with detergent and water after use.

Comments: Practice general personal hygiene after using this product. After handling any chemical or biological product, wash arms, hands and face with soap and water before eating, drinking or smoking.

Section 9 Physical and Chemical Properties

Physical State: Powder or granules --Color: Dark brown-- Odor: Earthy
-- Melting point: Not determined-- Boiling Point: Not determined-- Freezing Point: Not determined-- Water Solubility: Insoluble-- %Volatile(volume): Not determined --Specific Gravity: 0.6 --Vapor Pressure: Not determined-- Vapor Density: Not determined--pH: 6.5 to 7.4

Section 10 Stability and Reactivity

Stability: Stable

Conditions to Avoid: None

Hazardous Polymerization: Will not occur

Chemical Incompatibilities: 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.

Hazardous Products of Decomposition: Oxides of carbon

Section 11 Toxicological Information

Eye Effects/Eye Irritation: Irritating

Acute Oral Effects: LD 50 (orl-rat):>5000 mg/kg

Acute Inhalation Effects: No data available

Acute Dermal Effects: LD 50 (dml-rbt):>2000 mg/kg

Skin Irritation: Non-irritating

Skin Sensitization: Not a skin sensitizer

Section 12 Ecological Information

This product contains Rhizobacterial strain(s) that occur(s) naturally in soil.

Section 13 Disposal Considerations

Disposal: Small amounts of product which cannot be used according to label instructions may be disposed of in a landfill.

RCRA Waste Status: This product is not regulated as a hazardous waste. State and local regulation may affect the disposal of this product. Consult your state, local or provincial environmental agency for disposal of waste other than by use according to label instructions.

Section 14 Transport Information

Transportation Data: This product is not regulated as a hazardous material for all modes of transportation within the U.S. and Canada.

Hazard Class: Not Applicable

ID No.: Not applicable

Section 15 Regulatory Information

TSCA: All components of this product are listed on the TSCA inventory.

SARA Section 313: Contains no reportable components.

OSHA Hazard Classification: Non-hazardous

Proposition 65: Contains no components subject to warning requirements.

WHMIS/Controlled Products Regulations: This product has been classified in accordance with the hazard criteria for the CPR and this M S DS contains all of the information required by the CPR.

Section 16 Other Information

Prepared by: S. Lowe Date: March 2003

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