



3935 Thatcher Avenue, Saskatoon SK S7R 1A3 Canada

Material Safety Data Sheet

1. Product Identification

Product Use: *Rhizobium* Inoculant
MSDS Number: PBI-32
Effective Date: December 1, 2007

N-Prove[®] peat pea and lentil inoculant

2. Composition:

Component	CAS Number	%(w/w)
Pure culture of <i>Rhizobium leguminosarum</i> bacterium	Not Available	Not Available
Other Ingredients:		
Peat Powder	Not Available	Not Available
Natural Graphite	007782-41-5	Not Available

Note: The active ingredient of this product is a naturally occurring substance which most humans and livestock are exposed to on a routine basis without harm or significant effect.

Emergency Overview:

Do not vacuum up spills, since dust generated by this product may create an electrically conductive (explosive) medium when mixed with air.

3. Hazard Identification:

Potential Health Effects:

Eyes: Contact may cause eye irritation.

Skin Contact: Peat and graphite dust may cause skin irritation.

Skin Absorption: A single prolonged exposure is not likely to result in this material being absorbed in harmful amounts. Do not expose open cuts or wounds to products.

Ingestion: Small amounts swallowed incidental to industrial handling are not likely to cause injury. Ingestion of larger amounts may cause stomach discomfort or pain.

Inhalation: Prolonged or repeated exposure may cause injury to the respiratory tract.

Chronic Effects: Not a likely hazard.

Acute Effects: Not a likely hazard.

Cancer: Not a likely hazard.

Birth Defects: Not available.

Reproductive Effects: Not available.

Mutagenic Effects: Not available.

4. First Aid Measures:

Eyes: Flush with a continuous gentle stream of water for 5 minutes. If irritation develops, get medical attention.

Skin: Wash with plenty of soap and water.

Ingestion: Do not induce vomiting unless instructed to do so by qualified medical personnel. If individual is conscious, give them plenty of water to drink. Get medical attention if stomach discomfort develops.

Inhalation: Move individual to fresh air. Encourage coughing. Get medical attention if breathing difficulty develops.

Note to physician: Employ supportive care. Treatment should be based on the judgment of the physician in response to reactions of the patient.

5. Fire-Fighting Measures:

Flash Point: Not applicable.

Explosive Limits: Not applicable.

Auto-Ignition Temperature: Not applicable.

Extinguishing Media: Use extinguishing medium appropriate to control the surrounding fire.

Sensitivity to Mechanical Impact/Static Discharge: Dust generated may create an electrically conductive medium when mixed with air.

In Case of Emergency Call: 1-888-744-5662

Available 24 hours a day 7 days a week from April 1st to June 15th,
otherwise available from 8:00am to 4:30pm CST, Monday to Friday.

Unusual Fire and Explosion Hazards: None known.
Fire-Fighting Equipment: Wear positive-pressure self-contained breathing apparatus and full turn-out gear.

6. Accidental Release Measures:

Do not vacuum up spills of N-PROVE inoculant, since the dust can form an explosive mixture when mixed in air. Sweep up spills and store in a suitable container until proper disposal can be arranged.

7. Handling and Storage:

Store any unused product in original unopened containers at temperatures below 20°C (68°F), away from sunlight, drafts and direct heat sources. Practice reasonable caution to avoid contact with this product. Avoid breathing dust if generated. Users should wash hands before eating, drinking, chewing gum, using tobacco or the toilet. Keep out of reach of children. Do not ship or store this product with food, feed, drugs or clothing.

8. Exposure Controls, Personal Protection and Exposure Limits:

Rhizobium leguminosarum: Not available.
Peat Powder: ACGIH TLV and OSHA PEL for respirable mass is 5 mg/m³; ACGIH TLV for total mass is 10 mg/m³; OSHA PEL for total mass is 15 mg/m³.
Natural Graphite: Not available. Manufacturer recommends 2.5 mg/m³.
Engineering Controls: Good ventilation is required.
Breathing: Use an approved air-purifying respirator if respiratory irritation is experienced.
Protective Clothing: Wear clean body-covering clothing and impervious gloves when handling this product.
Eyes: Use safety glasses.
Other Protection: None specified.

9. Physical and Chemical Properties:

Boiling Point: Not applicable.
Vapour Pressure: Not applicable.
Volatility: Not applicable.
pH: Not available.
Appearance: Fine black powder.
Odour: Slight.
Coefficient of Water/Oil Distribution: Not Available.
Bulk Density: Not available.
Evaporation Rate: Not available.
Solubility in Water: Not applicable.
Freezing Point: Not applicable.
Odour Threshold: Not available.

Notice: The information contained in this Material Safety Data Sheet is presented in good faith and is believed to be accurate as of the effective date shown above. However, no other warranty, expressed, or implied, is given.

Melting Point: Not applicable.
Physical State: Solid.
Vapor Density: Not applicable.
Specific Gravity: Not available.

10. Stability and Reactivity:

Incompatibility: Do not store in direct contact with strong oxidizers, pesticides or chemical fertilizers.
Hazardous Decomposition Products: None known.
Hazardous Polymerization: Does not occur.

11. Toxicological Information:

Skin Absorption: Not available.
Ingestion: Oral LD₅₀ is not available.
Inhalation: Inhalation LC₅₀ is not available.

12. Ecological Information:

Toxicity to Bees: Not available. Not a likely hazard.
Toxicity to Fish: Not available. Not a likely hazard.
Toxicity to Birds: Not available. Not a likely hazard.

13. Disposal Considerations:

N-PROVE may be disposed of by placement in any landfill approved for domestic waste.

14. Transportation Information:

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

Hazard Class: Not applicable.

15. Regulatory Information:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by the Controlled Products Regulations.
Master Reference: On File.
MSDS Status: New MSDS.

16. Other Information:

Prepared by: D. Thome
This information may not be adequate for every application and therefore it is up to the user to determine the suitability of this information based on conditions of use, storage or local regulations.

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