



3935 Thatcher Avenue, Saskatoon SK S7R 1A3 Canada

# Material Safety Data Sheet

## 1. Product Identification

Product Use: *Rhizobium* Inoculant

MSDS Number: PBI-33

Effective Date: December 1, 2007

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## **N-Prove**<sup>®</sup> liquid soybean inoculant

### 2. Composition:

Component	CAS Number	%(w/w)
Pure culture of <i>Bradyrhizobium japonicum</i> bacterium	Not Available	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.

### 3. Hazard Identification:

#### Potential Health Effects:

**Eyes:** Contact may cause eye irritation.

**Skin Contact:** Not a likely hazard.

**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:** Not a likely hazard.

**Inhalation:** Not a likely hazard.

**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. 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 available.

**Explosive Limits:** Not applicable.

**Auto-Ignition Temperature:** Not applicable.

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

**Flammable Limits in Air (% by volume):**

**Lower:** Not applicable.

**Upper:** Not applicable.

**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:

Contain the spill with any available absorbent medium 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 between 4°C (39°F) and 25°C (77°F), away from sunlight, drafts and direct heat sources. **DO NOT** allow to freeze. Practice reasonable caution to avoid contact with this product. 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.

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

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

## 8. Exposure Controls, Personal Protection and Exposure Limits:

**Bradyrhizobium japonicum:** Not available.

**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 available.

**Vapour Pressure:** Not available.

**Volatility:** Not available.

**pH:** 6.5 – 7.4.

**Appearance:** Opaque liquid.

**Odour:** Slight.

**Coefficient of Water/Oil Distribution:** Not Available.

**Bulk Density:** Not available.

**Evaporation Rate:** Not available.

**Solubility in Water:** Not available.

**Freezing Point:** -4°C (25°F).

**Odour Threshold:** Not available.

**Melting Point:** Not applicable.

**Physical State:** Liquid.

**Vapor Density:** Not available.

**Specific Gravity:** Not available.

## 10. Stability and Reactivity:

**Incompatibility:** There are no known incompatible substances.

**Stability:** Stable.

**Hazardous Decomposition Products:** None known.

**Hazardous Polymerization:** Does not occur.

## 11. Toxicological Information:

**Skin Absorption:** Not available.

**Ingestion:** Oral LD<sub>50</sub> is not available.

**Inhalation:** Inhalation LC<sub>50</sub> 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.

**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.

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