

**Product Name:** PATROL® II LIQUID SOYBEAN INOCULANT  
**Registration No:** 2004005A – Fertilizers Act

**HMIS Codes:** H F R P  
 1 1 0 X

### Section I – Manufacturer Identification

**Manufactured For:** United Agri Products  
 Canada, Inc. **Address:** 789 Donnybrook Drive – Dorchester, Ontario  
 NOL 1G5  
**Emergency Phone:** 1-800-561-8273 **Medical Emergencies (Prosar):** 1-800-301-7976  
**Prepared By:** Registrations And **Date Revised:** 01/14/08  
 Regulatory Affairs

### Section II – Ingredients and Hazards

Ingredients	Occupational Exposure Limits			
Component	CAS Number	OSHA PEL	ACGIH TLV	Weight Percent
<i>Bradyrhizobium japonicum</i> soil bacterium in aqueous nutrient medium; Rhizobial cells in liquid growth medium	Proprietary	NE	NE	100%

\*\*\*No reportable quantities of hazardous ingredients are present\*\*\*

\*\*\*No reportable quantities of toxic chemical(s) subject to the reporting requirements of Section 313 of SARA Title III and of 40 CFR 372 are present\*\*\*

### Section III - Physical/Chemical Characteristics

**Melting Point:** NA **Specific Gravity: (H<sub>2</sub>O = 1):** 1.0 mg/L – 1.0 kg/L  
**Vapor Density:** NA **Evaporation Rate:** 1.0  
**Solubility In Water:** NA **Appearance and Odor:** Medium gold brown-colored liquid with slight odor.

### Section IV - Fire and Explosion Hazard Data:

**Flash Point:** 93.3°C / 199.9°F **Method Used:** NA  
**Flammable Limits in Air by Volume:** NA **Lower:** NA **Upper:** NA  
**Extinguishing Media:** Foam, alcohol foam, CO<sub>2</sub>, dry chemical, water fog.  
**Fire Fighting Precautions & Hazards:** Fire fighters should wear butyl rubber boots, gloves, and body suit and a NIOSH/MSHA self-contained breathing apparatus.

**Unusual Fire and Explosion Hazards:** Not a fire or explosion hazard when stored under normal conditions.

### Section V – Reactivity Data

**Stability:** Stable  
**Conditions to Avoid:** Extremes in temperature. High humidity.  
**Incompatibility (Materials to Avoid):** Long-term storage in direct contact with reactive metals such as aluminum, zinc, copper, nickel, magnesium, etc. Other materials to avoid include strong oxidizing agents.

**Hazardous Decomposition Products:** When involved in a fire, burning may evolve noxious fumes which may include carbon monoxide, carbon dioxide, nitrous oxides, acetic acid, or other toxic compounds depending on the chemical composition and combustion conditions.

**Hazardous Polymerization:** Will not occur.

**Section VI - Health Hazard Data**

**Inhalation Health Risks and Symptoms of Exposure:** Prolonged inhalation may lead to respiratory tract irritation.

**Skin and Eye Contact Health Risks and Symptoms of Exposure:** Prolonged or repeated contact may result in mechanical irritation.

**Skin Absorption Health risks and Symptoms of Exposure:** None expected.

**Ingestion Health Risks and Symptoms of Exposure:** Ingestion of large quantities may be harmful.

**Health Hazards (acute and chronic):** None known.

**Other Health Information:** Rhizobia is a soil bacteria that is not pathogenic to plants or humans.

**Carcinogenicity** NTP? No **IARC Monographs?** No

**Section VI Health Hazard Data (Continued)**

**Existing Medical Conditions Generally Aggravated By Exposure:** May provoke asthmatic response in persons with asthma who are sensitive to airway irritants.

**Emergency and First Aid Procedures:**

**Eyes:** Flush with flowing water for at least 15 minutes. Call a physician.

**Skin:** Wash affected area with soap and water. If irritation develops consult a physician. Remove and launder contaminated clothing before reuse.

**Inhalation:** If difficulty in breathing occurs, move to fresh air. Get immediate medical attention.

**Ingestion:** Get immediate medical attention. Unless advised otherwise, dilute with water or milk.

**Section VII – Precautions for Safe Handling and Use**

**Steps to be Taken in Case Material is Released or Spilled:** Contain the spill to prevent a large discharge to surface streams or storm sewers. Vacuum or use wet clean-up techniques and place recovered product in a closable container.

**Waste Disposal Method:** Disposal must be made in accordance with federal, state, and local regulations applicable to the disposal of non-toxic organic materials.

**Precautions to be Taken in Handling and Storing:** Local exhaust. Do not freeze. Avoid unnecessary skin and eye contact. Do not breathe fumes.

**Other Precautions:** Eye wash fountains should be easily accessible. As with all chemicals, keep out of the reach of children.

**Section VIII - Control Measures**

**Respiratory:** If excessive dust is present, wear NIOSH/MSHA approved respirator.

**Ventilation:** Local exhaust or containment.

**Clothing:** Gloves, coveralls, apron, boots as necessary to prevent skin contact as needed.

**Eye:** Safety glasses are recommended.

**Other:** Open wounds or skin surface disruptions should be covered with a chemical resistant patch to minimize absorption risks. Clean clothing should be worn daily to avoid possible long-term build up of the product leading to chronic overexposure.

**Section IX - Shipping and Labeling Information**

D.O.T. Shipping Data: Not regulated.

D.O.T. Hazard Classification: NA

D.O.T. Labels Required: NA

D.O.T. Identification NA

**Section X - Disclaimer**

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NE = Not Established

NA = Not Applicable

Previous MSDS Date: 1/14/05