

# SAFETY DATA SHEET



## Section 1 – Identification

**Product Identifier:** XiteBio® PulseRhizo® Liquid for Pea, Lentil, and Faba Bean

**Other Means of Identification:** Liquid inoculant product containing live cultures of nitrogen-fixing *Rhizobium* bacteria.

**Recommended Use:** Agricultural inoculant

**Supplier Identifier:** XiteBio Technologies Inc.

Address: 3194 St. Mary's Road, Winnipeg, Manitoba, R2N 4A8, Canada

Phone: 204-257-0775

**Emergency Telephone Number:** 204-257-0775 Monday-Friday, 8am – 5pm CST

## Section 2 – Hazard Identification

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

**Hazard Classification:** Not classified.

**Label Elements:** Not required.

Signal word: Not required.

Hazard statement: Not required.

Precautionary statement: Not required.

**Other Hazards:** None known.

## Section 3 – Composition/Information on Ingredients

Hazardous	CAS	OSHA	ACGIH	ACGIH
<u>Ingredient:</u>	<u>Number:</u>	<u>PEL:</u>	<u>TLV:</u>	<u>STEL:</u>
None				

Contains naturally-occurring, non-pathogenic *Rhizobium leguminosarum* bacteria.

## Section 4 – First Aid Measures

**First Aid Measures by Route of Exposure:**

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

Skin Contact: Wash exposed skin with soap and water.

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

Ingestion: No treatment necessary.

**Most Important Symptoms and Effects (Acute or Delayed):** Contact with eyes may cause irritation. Not expected to present a hazard under anticipated conditions of normal use.

## Section 5 – Fire Fighting Measures

**Suitable Extinguishing Media:** Use agent most appropriate to extinguish surrounding fire.

**Unsuitable Extinguishing Media:** None known.

**Specific Hazards Arising From the Product:** None known.

**Special Protective Equipment and Precautions for Firefighters:** No special requirements.

## Section 6 – Accidental Release Measures

**Personal Precautions, Protective Equipment, and Emergency Procedures:** No special requirements. Follow normal hygiene and housekeeping standards for agricultural products.

**Methods and Materials for Containment and Clean-up:**

Large Spill/Leak Procedures: Contain spill and recover for use 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 – Handling and Storage

**Precautions for Safe Handling:** No special handling requirements. Follow normal hygiene and housekeeping standards for agricultural products.

**Conditions for Safe Storage:** 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.

### Section 8 – Exposure Controls/Personal Protection

**Control Parameters:** None.

**Appropriate Engineering Controls:**

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

**Individual Protection Measures:**

Protective Clothing/Equipment: No special requirements.

Respirator: None required when used according to label instructions.

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

**Appearance:** Yellow to brown liquid.

**Odour:** Mild.

**Odour Threshold:** Not determined.

**pH:** 6 to 8

**Melting Point/Freezing Point:** 25°F (-4°C) (Freezing point)

**Boiling Point:** 216°F (102°C)

**Flash Point:** Not determined.

**Evaporation Rate:** Not determined.

**Lower/Upper Flammable/Explosive Limit:** Not determined.

**Vapour Pressure:** Not determined.

**Vapour Density:** Not determined.

**Relative Density:** 1 g/cc

**Solubility:** Soluble

**Partition Coefficient:** Not determined.

**Auto-ignition Temperature:** Not determined.

**Decomposition Temperature:** Not determined.

**Viscosity:** Not determined.

### Section 10 – Stability and Reactivity

**Reactivity:** Stable.

**Chemical Stability:** Stable.

**Possibility of Hazardous Reactions:** None.

**Conditions to Avoid:** None.

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

**Hazardous Decomposition Products:** Oxides of carbon.

### Section 11 – Toxicological Information

**Likely Routes of Exposure:** Ingestion, Eye Contact

**Acute Effects (Signs & Symptoms of Overexposure):**

Eyes: Liquid splashed in eyes may cause minor mechanical irritation.

Skin: No known hazard.

Inhalation: No known hazard.

Ingestion: No known hazard.

**Chronic Effects:** No known hazard.

**Acute Toxicity Estimates:** No data available.

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

### Section 12 – Ecological Information

**Ecotoxicity:** The product contains non-pathogenic bacterial strains that occur naturally in soil.

**Persistence and Degradability:** Biodegradable.

**Bioaccumulative Potential:** Not known.

**Mobility in Soil:** Not determined.

**Other Adverse Effects:** Not known.

### Section 13 – Disposal Considerations

This product is not regulated as a hazardous waste. Unused product may be disposed of in any approved landfill for domestic waste.

### Section 14 – Transport Information

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

**Hazard Classification:** Not applicable.

**ID No.:** Not applicable.

### Section 15 – Regulatory Information

**Safety, Health and Environmental Regulations:**

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 Product Regulations: This product has been classified in accordance with the hazard criteria of the CPR and this SDS contains all of the information required by the CPR.

### Section 16 – Additional Information

Prepared by: XiteBio Technologies Inc.

Date: May 17<sup>th</sup>, 2019

#### **Notice to reader**

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