

MATERIAL SAFETY DATA SHEET

Section 1 – Product and Company Identification

Material Name: XiteBio[®] Yield+ for Canola, Corn, Wheat, Barley and Legumes
Other Designation: Liquid biological product containing live cultures of *Bacillus firmus* bacteria
Chemical Formula: Mixture
Company: XiteBio Technologies Inc.
Address: 3194 St. Mary's Road, Winnipeg, Manitoba, R2N 4A8, Canada
Phone: 204-257-0775

Section 2 – Ingredient Information

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 *Bacillus firmus* bacteria.

Section 3 – Hazards Identification

EMERGENCY OVERVIEW

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

Primary Entry Routes: Oral (swallowing)

Acute Effects (Signs & Symptoms of Overexposure):

Potential Health Effects

- ▶ 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.

Medical Conditions Aggravated by Exposure: No known hazard.

Target Organs: None

Carcinogenicity: Contains no known or suspected carcinogens.

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 exposed skin with soap and water. Remove contaminated clothing & launder before reuse.

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

Ingestion: Unless advised otherwise dilute by drinking plenty of water. Seek medical attention if discomfort develops.

Section 5 – Fire Fighting Measures

Flash Point: None

Autoignition Temp.: Not determined

Explosive Limits: LEL: Not applicable
UEL: Not applicable

Extinguishing Media: Use agent most appropriate to extinguish 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 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

Storage: Store in original container in a cool, well-ventilated dry place at temperatures between 4°C and 28°C. Avoid repeated freeze/thaw cycles. Shake well before use. Open package only when ready to use. Use before expiration date printed on package.

Handling: 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: No special requirements; use according to label instructions.

Respirator: No special requirements; use 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

Physical State: Liquid

Color: Yellow to brown

Odor: Mild

Melting Point: Not determined

Boiling Point: 216°F (102°C)

Freezing Point: 25°F (-4°C)

Water Solubility: Soluble

% Volatile (Volume): Not determined

Specific Gravity/Density: 1 g/cc

Vapor Pressure: Not determined

Vapor Density: Not determined

pH: 6 to 8

Section 10 – Stability and Reactivity

Stability: Stable

Conditions to avoid: None

Hazardous Polymerization: Will not occur

Chemical Incompatibilities: Some chemicals, including herbicides or fungicides, may be harmful to the bacteria in this product. See product label for further information on the use of herbicides/fungicides or other chemicals in conjunction.

Hazardous Products of Decomposition: Oxides of carbon.

Section 11 – Toxicological Information

Eye Effects/Eye Irritation: Non-irritating

Acute Oral Effects: No data available

Acute Inhalation Effects: No data available

Acute Dermal Effects: No data available

Skin Irritation: Non-irritating

Skin Sensitization: Not a skin sensitizer

Section 12 – Ecological information

The product contains naturally-occurring soil bacteria.

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. However, disposal of unused product and waste effluents should be in accordance with provincial/state and local waste disposal regulations.

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

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 MSDS contains all of the information required by the CPR.

Section 16 – Additional Information

Prepared by: XiteBio Technologies Inc.

Last Updated: August 31, 2015

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