

Material Safety Data Sheet

BioBoost® Plus Liquid

Product & Company Identification

Product Name:	BioBoost® Plus for Soybean
Description:	Liquid inoculant product containing pure cultures of <i>Bradyrhizobium japonicum</i> and <i>Delftia acidovorans</i> .
Chemical Formula:	Mixture
Manufacturer:	Brett-Young Seeds Limited Box 99 St. Norbert Postal Station Winnipeg, Manitoba, R3V 1L5, Canada
Emergency Telephone Number:	1-800-665-5015 or 204-261-7932
Telephone Number for Information:	1-800-665-5015 or 204-261-7932
Date Prepared:	December 28, 2008

Composition/Information on Ingredients

<u>Hazardous Ingredients</u>	<u>CAS Number</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>ACGIH STEL</u>
Contains no hazardous ingredients.				
Contains non-pathogenic naturally-occurring, <i>Rhizobium</i> and <i>Delftia</i> bacteria. These are plant growth promoting rhizobacteria (PGPR), to be applied as seed treatment or in-furrow at seeding, to soybean crop. Please follow the product label for specific information on methods and application rate. Not for food, feed or drug use. Not a plant food product.				

Hazards Identification

This material is not a 'health hazard' or a 'physical hazard'. There are no known health effects caused by these bacteria contained in this product when used according to the instructions in the label.

First Aid Measures

Eyes: Flush immediately with plenty of water for at least 15 minutes while holding eyelids apart to ensure complete irrigation of all eye and lid tissue. If irritation occurs, seek medical attention.
Skin: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Get medical attention if irritation persists.
Ingestion: If conscious and alert, administer water or milk to dilute, then induce vomiting. Contact physician immediately.
Inhalation: Remove person to fresh air and seek medical attention if irritation persists.
Note to Physician: Employ supportive care. Treatment should be based on the judgment of the physician in response to reactions of the patient.

Firefighting Measures

Flashpoint:	None
Autoignition Temperature:	Not determined
Explosive Limits:	LEL: Not applicable UEL: Not applicable
Extinguishing Media:	Use media suitable for the surrounding fire
Unusual Fire or Explosion Hazards:	None known
Fire Fighting Instructions:	No special requirements

Accidental Release Measures

Small Releases: Spilled liquid may be slippery. Flush spill area with adequate water to wash away slippery residues.
Large Releases: Shut off release if safe to do so. Contain spill and recover for use or disposal.

Handling & Storage

Handling: Avoid contact with eyes. Do not wear contact lenses during handling of this product. Use only in a well ventilated area. Wash thoroughly after handling. Avoid prolonged or repeated breathing vapors. Avoid prolonged or repeated contact with skin.

Storage: Store in original container only in a cool, well-ventilated, dry place at temperatures between 40° and 90° F. Do not store near food or feeds. Shake well before use. Use before expiration date.

Exposure Controls/Personal Protection

Respiratory Protection: Not normally needed. If use generates an aerosol mist or respiratory irritation, use NIOSH-approved respirator. Special ventilation is not required for the normal handling and use of this product when following the label requirements.

Skin Protection: Neoprene rubber gloves and apron should be worn to prevent repeated or prolonged contact with the liquid.

Eye Protection: Use safety goggles. **DO NOT WEAR CONTACT LENSES.**

Note: After handling the product practice general hygiene. Wash hands and face with soap and water before smoking, drinking or eating.

Physical & Chemical Properties

Appearance:	Light brown, translucent viscous liquid
Odor:	Mild
Vapor Pressure:	Not available
Vapor Density:	Not available
Solubility in Water:	Soluble
Specific Gravity:	1.0 (g/cc)
Melting Point:	Not available
pH:	6 to 8
Volatile:	Not available
Color:	Light brown liquid
Freezing Point:	25° F (-4° C)
Boiling Point:	216° F (102° C)

Stability & Reactivity

Stability:	Stable
Hazardous Polymerization:	Will not occur
Hazardous Decomposition Products:	Oxides of Carbon
Incompatibility:	Some fungicides/chemicals may be harmful to the bacteria in this product. Please see product label for further information

Toxicological Information

Oral: May cause stomach irritation.

Dermal: Not expected but may cause slight irritation, especially from prolonged exposure.

Inhalation: Not expected but inhalation may cause mild irritation of nasal mucous membrane.

Eyes: May cause temporary eye irritation.

Ecological Information

This product contains naturally-occurring non-pathogenic soil bacteria and the product is biodegradable.

Disposal Considerations

Dispose unused product and waste effluents in accordance with state and local waste disposal regulations. Chemical additions or other alterations of this product may invalidate any disposal information in this MSDS. Therefore, consult local waste regulators for proper disposal.

Transportation Information

This product is not regulated as a hazardous material for transportation within US and Canada by any means of transportation.

Regulatory Information

CERCLA: None

SARA Title III, Section 313 Toxic Chemicals: None

Other Information

The information provided in this Material Safety Data Sheet has been compiled in good faith and is believed to be accurate. No warranty, expressed or implied regarding the completeness or continuing accuracy of the information contained herein, and Brett Young disclaims all liability for reliance thereon. It is users responsibility to determine the suitability of this information for the adoption of safety precautions as may be necessary to comply with all Federal, Provincial or State and Local laws and regulations. This information may not be adequate for every application. The user should satisfy himself that he has all current data relevant to his particular use.