

**1. Product Identification**

Form: Free-flowing Powder  
 Color: Dark Green  
 Odor: Earthy odor

**2. Hazardous Ingredients**

Hazardous Components: 66% Bran Carrier, 33% Micronutrients consisting of:  
 Complex Carbohydrates 61.6  
 Vitamins and Minerals 15.9  
 Proteins 5.7  
 Fat 2.6  
 Inert Material and Water 14.2  
 1% Select Microorganisms

**3. Physical / Chemical Data**

Bacterial Count: 5 billion per gram  
 Bulk Density: 0.6 - 0.8 gr/cc  
 Water Solubility: Moderate - disperses in water

**4. Fire and Explosion Data**

pH: 6.0 to 7.0 when mixed with water  
 Flash Point: N/A  
 Special Fire Fighting Procedures: None  
 Extinguishing Media: Water

**5. Reactivity Data**

Stability: Stable  
 Conditions to Avoid: Accumulation of product in confined area  
 Hazardous Byproducts: None  
 Hazardous Polymerization: Will not occur  
 Incompatibility: Acids or alkalis may inactivate biological cultures

**6. Health Hazard Data**

Eye Contact: May cause irritation.  
 First Aid: Flush with water for at least 15 minutes. Contact physician.  
 Recommended Precautions: Safety goggles. Avoid creating dust or an enclosed environment.

Skin Contact: Exposure can cause irritation if a person has a history of dermal allergic reaction.  
 First Aid: Wash with soap and water.  
 Recommended Precautions: Limit exposure. Use rubber gloves. Do not handle product directly.

Ingestion: Considered non toxic but can lead to nausea or diarrhea.  
 First Aid: Give two glasses of water to dilute product, do not induce vomiting. Contact physician immediately.  
 Recommended Precautions: Store in safe place. Wear protective mask.

Inhalation: Causes Irritation.  
 First Aid: Calm the individual, allow plenty of fresh air, loosen clothing around neck. Contact physician.  
 Recommended Precautions: Use approved respiratory mask. Avoid creating dust where possible. Use in properly ventilated area.  
 General Precautions: Treat as you would any chemical or biological material. Always wash hands thoroughly after use

**7. Storage and Handling**

Recommended Storage: Store in cool, dry conditions. Storage temperature should be between 41 degrees F and 104 degrees F (5 C and 40 C).  
 Precautions on Handling : No danger from handling packaged material. Ensure packaged containers remain sealed.  
 Waste Disposal: Small spillages can be washed away with large amounts of water. Large spillages, if contained, can be returned to container. Check local and state authority requirements in the case of disposing of large quantities.

**8. Biological Hazard Data**

Microbial Formulation: The product formulation contains a range of naturally-occurring microorganisms which are known to be non-pathogenic to man or animals.  
 Other: The product has been shown to be free of Salmonella and Shigella using the procedures outlined by AOAC and the USDA.

Prepared by: MSDS Coordinator, Jan. 4<sup>th</sup> 2003

Supplied by: Advance Biotechnologies of Canada, #101, 19623 56 Ave Langley, BC V3A 3X7 Toll Free 1-877-533-3901

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