

June 6th, 2004

**SECTION I - Product Identification & Address**

This Material Safety Data Sheet references the following products:

**• OptiWhite**

Product use: Food ingredient

**LALLEMAND BIO-INGREDIENTS**  
Division of Lallemand, Inc.  
8480 Boul. St-Laurent  
Montréal, Québec H2P 2M6  
Canada

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**Phone Numbers**

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Emergency: 514-522-2133  
General Information: 514-381-5631  
Customer Service:

**SECTION II - Hazardous Ingredients / Identity Information**

Ingredients	CAS Number	% By Wt.	OSHA PEL	ACGIH TLV
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This product does not meet the definition of a hazardous material given in the U.S. Occupational Safety and Health Administration's Hazard Communication Standard, and is not a controlled product as defined by the Canadian Hazardous Product Act (Bill C70).

**SECTION III - Physical / Chemical Characteristics**

Appearance : Light tan powder  
Odor : Mild savory odor  
Solubility in Water : Partial  
Boiling Point : Not Applicable  
Vapor Pressure (mm Hg) : Not Applicable  
Vapor Density (Air = 1) : Not Applicable  
Specific Gravity (H<sub>2</sub>O = 1) : Not Applicable  
Melting Point : Not Applicable  
Evaporation Rate (Butyl Acetate = 1) : Not Applicable

**SECTION IV - Fire and Explosion Hazard Data**

Flash Point : Not Applicable  
Flammable Limits (% By Volume In Air) : Not Applicable  
LEL - Not Established  
UEL - Not Established  
Fire Extinguishing Media : Water, dry chemical, foam, or CO<sub>2</sub>.  
Special Fire Fighting Procedures : Not Applicable  
Fire and Explosion Hazards : Material becomes slippery when wet.

**SECTION V - Reactivity Data**

Stability : Stable  
Conditions to Avoid : Not Applicable  
Incompatibility (Materials to Avoid) : Not Established  
Hazardous Decomposition (or Byproducts) : Not Established  
Hazardous Polymerization : Will not occur

## SECTION VI - *Health Hazard Data*

### Health Hazards (Acute and Chronic)

- Inhalation : Dust may cause irritation to mucous membranes of nose, throat and lungs.
- Eye : Dust may cause mechanical irritation.
- Skin : Repeated contact may cause irritation.
- Ingestion : No known applicable information
- Signs and Symptoms of Exposure : Same as for Health Hazards listed above
- Medical Conditions Generally Aggravated by Exposure : Same as for Health Hazards listed above

### Emergency and First Aid Procedures

- Inhalation : Remove from exposure. If irritation or adverse symptoms develop, seek medical attention.
- Eyes/Skin : Flush with running water. If irritation or adverse symptoms develop, seek medical attention.
- Ingestion : Not Applicable
- Carcinogenicity : Based on information presently available, this product does not meet any of the health hazard definitions of the U.S. CFR Title 29 Section 1910.1200.

## SECTION VII - *Precautions for Safe Handling and Use*

**Steps to Be Taken in Case Material is Released or Spilled:** Contain spill. Scoop up and place in disposal container; rinse contaminated area with water. Material may also be flushed with water or washed down conventional sewer system.

**Waste Disposal Method:** Insure conformity with all applicable disposal regulations. Manage in permitted waste management facility. May also be flushed down conventional sewer system.

### **Precautions to Be Taken in Handling and Storing:**

**Handling** - Avoid breathing dust. Avoid contact with eyes, skin and clothing. Wear protective equipment described in Section VIII if exposure conditions warrant. Wash thoroughly after handling. Launder contaminated clothing before reuse.

**Storage** - Store in original container or in clean, covered container. Keep containers sealed and dry. Store in cool, dry, well ventilated area. Avoid storage at elevated temperatures for prolonged periods of time. Bags should be kept sealed and dry.

**Other Precautions:** None.

## SECTION VIII - *Control Measures - Personal Protection Information*

**Respiratory Protection:** Not generally required unless needed to prevent respiratory irritation from dust.

**Ventilation:** Use adequate ventilation.

**Skin Protection (Protective Gloves):** Wear protective gloves when handling food ingredients.

**Eye Protection:** Wear goggles if airborne dust concentrations are excessive. Follow normal industrial eye protection precautions consistent with current Good Manufacturing Practices.

**Other Protective Clothing or Equipment:** Personal protection information provided in Section VIII is based upon general information as to normal uses and conditions. Where special or unusual uses and conditions exist, it is suggested that the expert assistance of an industrial hygienist or other qualified professional be sought.

**Work/Hygienic Practices:** Follow current Good Manufacturing Practices when handling food ingredients and materials.

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Lallemand Bio-Ingredients believes the information contained herein is accurate. No guarantee or warranty of any kind is made with respect to this information.