

June 22, 2001

SECTION I - Product Identification & Address

This Material Safety Data Sheet references the following products:

- **PL 50** (Pourable Yeast Extract Nutrient)

Product use: Food ingredient

	Phone Numbers
LALLEMAND BIO-INGREDIENTS	Emergency: 514-522-2133
Division of Lallemand, Inc.	General Information: 514-381-5631
8480 Boul. St-Laurent	Customer Service:
Montréal, Québec H2P 2M6	
Canada	

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 :	Brown pourable solution
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 ₂ 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 ₂ .
Special Fire Fighting Procedures :	Not Applicable
Fire and Explosion Hazards :	Material is slippery.

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 : Not applicable.
Eye : Solution 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 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. Store in cool area. Avoid storage at elevated temperatures for prolonged periods of time.

Other Precautions: None.

SECTION VIII - *Control Measures - Personal Protection Information*

Respiratory Protection: Not generally required.

Ventilation: Use adequate ventilation.

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

Eye Protection: Wear goggles if splashing is 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.

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