



Material Safety Data Sheet

SECTION I - PRODUCT & COMPANY IDENTIFICATION

Product name : **OPTI RED**
Product code: 30810-01-27; 30810-07-27; 30810-08-27
Reference name : *Inactive yeasts*
Description : Inactive Yeasts cultures in powder form
Product use : Food ingredient

Manufacturer's name : **Lallemand Inc.**

Information telephone : + 1-514 522-2133
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Date of MSDS preparation : Mars 13th, 2006
Party responsible for MSDS preparation : Quality management technician
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SECTION II - DATA ON COMPONENTS

Product composition : Proprietary.
Microbial concentration : None
Hazardous ingredients : None. There are no WHMIS Controlled Products present at greater than 1.0% of the composition. There are no known embryo toxins, carcinogens, reproductive toxins, respiratory tract sensitizers or mutagens (as per section 53 to 57 of the Canadian Controlled Products Regulations) present at greater than 0.1%. There are no ingredients present which are listed on the WHMIS Ingredient Disclosure List at, or above, the minimum concentration specified on the List.

Information on yeast components, as follows :

<u>Ingredients</u>	<u>CAS #</u>	<u>% by Wt</u>	<u>LD₅₀ & LC₅₀</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
<u>Saccharomyces cerevisiae</u>	Not listed	100%	Not established	Not established	Not established

SECTION III - HEALTH HAZARD IDENTIFICATION

Signs and symptoms of overexposure to bacterial powder through primary routes of exposure :

Skin contact : May cause irritation on prolonged contact.
Eye contact : May cause eye irritation upon direct contact.
Inhalation : In some cases, repeated exposure may lead to allergic sensitization based on the exposure level, duration and susceptibility of the individual. Subsequent chronic or acute exposure in sensitized persons may cause a respiratory allergic reaction in minutes or delayed, or a mixture of both. Typical symptoms are respiratory irritation, breathlessness, coughing, chest tightness and difficulty breathing.

Ingestion : Excessive ingestion of highly concentrated yeast powder could lead to intestinal discomfort (e.g. diarrhea, bloating, cramping, etc.)

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 IV - FIRST AID MEASURES

If accidental overexposure is suspected :

Skin contact :	Wash affected area with soap and water.
Eye contact :	Flush eyes for at least 15 minutes.
Inhalation :	Immediately remove person to fresh air.
Ingestion :	Drink plenty of water.

Note to physician : No special precautions to report.

Medical conditions likely to be aggravated by exposure : None

If any symptoms persist, seek medical attention.

SECTION V - FIRE FIGHTING MEASURES

Conditions of flammability :	Unknown.
Extinguishing media :	Water, foam, carbon dioxide, dry powder.
Flash point and method of determination :	Solid.
Flammable limits (% by volume in air) :	Not applicable.
Autoignition temperature :	No data available.
Hazardous combustion products :	None.
Explosion - sensitivity to mechanical impact :	None.
Explosion - sensitivity to static discharge :	None.
Firefighting procedures :	Use self-contained breathing apparatus (SCBA) when exposed to confined or enclosed fires. Material becomes slippery when wet.

SECTION VI - ACCIDENTAL RELEASE MEASURES

In case material is released or spilled, vacuum spill or dilute with water before removal. Collect waste in suitable container and wash surface with water. Avoid high pressure rinsing. Maintain good housekeeping practices. Bio-degradable may be discharged into sewer. No special disposal method required, expect that it be in accordance with current local, state / provincial and federal regulations.

SECTION VII - HANDLING & STORAGE

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.

SECTION VIII - EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory protection :	Protective mask should be worn in conditions of excessive dusting.
Eye contact :	Protective glasses should be worn in conditions of excessive dusting. If eye contact occurs, rinse with water.
Clothing :	Suitable protective clothing.
Work / hygiene practices :	Follow current Good Manufacturing Practices when handling food ingredients and materials.
Specific engineering controls :	None.

SECTION IX - PHYSICAL & CHEMICAL PROPERTIES

Microbial concentration :	None.
Physical state :	Solid (powder).
Appearance :	Light tan powder
Odour :	Mild savory odor.
Odour treshold :	Not applicable.
Specific gravity :	No data available.
Vapour pressure :	Not applicable.
Vapour density :	Not applicable.
Evaporation rate :	Not applicable.
Boiling point :	Not applicable.
Freezing point :	Not applicable.
Melting point :	Not applicable.
pH :	No data available.
Partition coefficient :	Not applicable.
Viscosity :	Not applicable.
Solubility in water :	Partially soluble.

SECTION X - STABILITY AND REACTIVITY

Stability :	Stable under normal conditions of use.
Incompatibility :	Not established.
Conditions to avoid :	Not established. humidity.
Hazardous decomposition products :	None.
Hazardous polymerization :	None.

SECTION XI - TOXICOLOGICAL INFORMATION

Products recognized as safe	
Effects of short-term exposure :	None.
Effects of long-term exposure :	None.
Irritancy :	Unknown.
Sensitization :	Possible allergic sensitization (see Section III).
Allergy :	Yeast product.
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
Reproductive toxicity :	None.
Teratogenicity :	None.
Mutagenicity :	None.
Toxicologically synergistic products :	None.

SECTION XII - ECOLOGICAL INFORMATION

No environmental effect.

SECTION XIII - DISPOSAL CONSIDERATIONS

Product can be removed and disposed of in regular trash or waste. No special disposal method required, except that it be in accordance with current local authority regulations.

SECTION XIV - TRANSPORT INFORMATION

Shipping classification : Not hazardous.
Refrigerated transport is not required.

SECTION XV - REGULATORY INFORMATION

WHMIS classification for product : Not a WHMIS regulated product. Product is classified as WHO Risk Group I and is not considered to fall within the Canadian Controlled Products Regulations criteria for biohazardous infectious materials. 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.

This MSDS has been prepared to meet the requirements of the Canadian *Controlled Products Regulations*.

SECTION XVI - OTHER INFORMATION

The information herein is based in current available data and is believed to be correct. No warranty, express or implied, is made regarding data accuracy, merchantability or hazards associated with product use. The user is responsible for determining product suitability, conditions of use and all associated hazards. Values listed in this document are not product specifications.