Lallemand

MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT & COMPANY IDENTIFICATION

Product name: Active Dry Yeast, powder

Reference name: Saccharomyces cerevisiae
Description: Yeast culture in powder form.

Product use: Alcohol fermentation

Manufacturer's name: Lallemand inc.

Information telephone: + 1- 514 522-2133
Emergency telephone (direct): + 1- 514 858-4612

Date of MSDS preparation: 23th January 2007

Party responsible for MSDS preparation: Quality management technician, +49 176 22 12 62 89

SECTION II - DATA ON COMPONENTS

Product composition: Proprietary.

Microbial > 15 billion viable yeast cells/gram.

concentration: None. There are no WHMIS Controlled Products present at greater than 1.0% of the composition. There are no Hazardous ingredients: known embryo toxins, carcinogens, reproductive toxins, respiratory tract sensitizers or mutagens (as per sections

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:

Name	CAS#	% by Wt	LD ₅₀ & LC ₅₀	OSHA PEL	ACGIH TLV	_
Saccharomyces cerevisiae	68876-77	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.).

SECTION IV - FIRST AID MEASURES (If any symptoms persist, seek medical attention)

If accidental overexposure is suspected:

Eye contact: Flush eyes for at least 15 minutes.

Skin contact: Wash affected area with soap and water.

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

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ECTION 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: Not applicable.

Auto ignition temperature: No data available.

Hazardous combustion products:

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 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, except 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. Follow current Good Manufacturing Practices when handling food

ingredients and materials.

Specific engineering controls: None.

SECTION IX - PHYSICAL & CHEMICAL PROPERTIES

Microbial concentration: > 15 billion viable yeast cells/gram

Physical state: Solid (powder)
Appearance: Light tan powder.

Odour: Toasty.

Odour threshold: Not applicable. Specific gravity: No data available. Vapour pressure: Not applicable. Not applicable. Vapour density: Evaporation rate: Not applicable. Boiling point: Not applicable. Freezing point: Not applicable. Not applicable. Melting point: 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: No hazardous incompatibilities. Moisture and high temperatures are

detrimental to the viable yeast concentration of product.

Conditions to avoid: Avoid storage at elevated temperatures for prolonged periods. Avoid high humidity.

Hazardous decomposition products: None. Hazardous polymerization: None.

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SECTION XI – TOXICOLOGICAL INFORMATION

Product 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: None.
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.

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 on 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.

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