

**ENZYME MATERIAL SAFETY DATA SHEET (MSDS)**

WHITE STYLE

(GRANULATED ENZYME AND SPECIFIC INACTIVATED YEAST) Revision date : Aug. 14, 2007

Revision number : 002

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

Commercial product name : **WHITE STYLE**  
Description : enzyme preparation and specific inactivated yeast preparation  
Manufacturer : **LALLEMAND SA**  
Parc d'Activité de Font Grasse  
BP 59  
19 rue des Briquetiers, 31700 BLAGNAC, FRANCE  
Phone : +33 5 62 74 55 55 Fax : +33 5 62 74 55 00  
Emergency phone number : +33 5 62 74 55 55

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical characterization of active component : granulated fungal pectinase enzyme preparation  
from *Aspergillus niger*  
IUB number ; 3.2.1.6  
CAS number : 622 13 14 3  
EINECS number : 263 462 4  
Classification : X<sub>n</sub> (harmful), R 42

**3. HAZARD IDENTIFICATION**

Repeated inhalation of enzyme dust may induce sensitization and may cause allergic type reactions in sensitized individuals. The product may be irritant to eyes. Prolonged skin contact may cause minor irritation.

**4. FIRST AID MEASURES**

Skin contact : Wash off with plenty of water. If irritation occurs, seek medical advice.  
Eye contact : Rinse with plenty of water for at least 15 minutes. If irritation occurs, seek medical advice.  
Ingestion : Rinse mouth and throat thoroughly with water. Should irritation occur seek medical advice.  
Inhalation : Remove from exposure. If irritation or allergic response occurs, consult a doctor.

**5. FIRE-FIGHTING MEASURES**

Suitable fire extinguishing media : water, foam  
Non-suitable media : none  
Special exposure hazards : none  
Protection against fire and explosions : no special requirements

**6. ACCIDENTAL RELEASE MEASURES**

After spillage avoid raising dust or aerosols. Pick up by mechanical means or by a vacuum equipped with a high efficiency filter. Dilute remainder with plenty of water. Never use high pressure water jet. Assure sufficient ventilation. Wash contaminated clothing.

## 7. HANDLING AND STORAGE

Avoid the formation of dust and aerosols. Assure good ventilation of the room, when handling this product. Store container in a dry and cool place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protective equipment:

Respiratory protection	: respirator approved for these types of dust and potential airborne concentrations (mask with P3 filter)
Hand protection	: impermeable gloves
Eye protection	: protecting glasses or eye shield

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: beige granule
Odor	: slight fermentation odor
pH	: from 4.0 to 5.0 when dissolved in distilled water (1%)
Solubility	: readily soluble
Explosive properties	: potential risk of dust explosion

## 10. STABILITY AND REACTIVITY

The material is stable under normal conditions of use.

Conditions to avoid	: none
Materials to avoid	: none
Hazardous decomposition products	: none

## 11. TOXICOLOGICAL INFORMATION

Repeated inhalation of enzyme dust may cause sensitization and may cause allergic type reactions in sensitized individuals. The product may be irritant to eyes. Prolonged skin contact may cause minor irritation.

## 12. ECOLOGICAL INFORMATION

Product is believed not to be dangerous to the environment with respect to mobility, persistency and degradability, bioaccumulative potential, aquatic toxicity and other data relating to ecotoxicity.

## 13. DISPOSAL CONSIDERATIONS

No special disposal method required, except that it be in accordance with current local authority regulations.

## 14. TRANSPORT INFORMATION

UN No.	: not applicable
Sea	: not applicable
Road/Rail	: not applicable
Air	: not applicable

## 15. REGULATORY INFORMATION

Preparation does not contain ingredients listed as a dangerous substance in Annex I of the EEC Directive 67/548. It is a dangerous preparation with the meaning of the EEC Directive (88/379).

Labeling

: X<sub>n</sub> (harmful)

R42: May cause sensitization by inhalation

S22: Do not breathe dust

S23: Do not breathe spray

## 16. OTHER INFORMATION

The information contained in this Safety Data Sheet, as of the issue date, is believed to be true and correct. However, the accuracy or completeness of this information and any recommendations or suggestions are made without warranty or guarantee. Since the conditions of use are beyond the control of our company, it is the responsibility of the user to determine the conditions of safe use of this product. The information in this sheet does not represent analytical specifications, for which please refer to our technical data sheet.

The format of this enzyme Material Safety Data Sheet complies both with the EEC Directive 91/155/EEC and ISO standard 11014-1 and is recommended by the Association of Microbial Food Enzyme Producers "AMFEP".