



# MATERIAL SAFETY DATA SHEET

Directive 91 - 155 (CEE)

**LAFASE: CLARIFICATION-THERMO-32- 60-HE-HE Grand Cru**  
**LAFAZYM: CL Nouvelle formulation-EXTRACT-AROM-PRESS**  
**OPTIZYM**

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## 1 - CHEMICAL PRODUCT IDENTIFICATION AND COMPANY IDENTIFICATION.

**Product name:**

LAFASE: CLARIFICATION -THERMO-32-60 HE-HE Grand Cru  
LAFAZYM: CL Nouvelle formulation-EXTRACT-PRESS-AROM  
OPTIZYM

**Product use:** winemaking.

**Supplier:**

LAFFORT OENOLOGIE - B.P. 17  
33 015 BORDEAUX CEDEX  
Tel: 33.(0)5.56.86.53.04 Fax: 33.(0)5.56.86.30.50

**Distributed by:**

**Local emergency contact number:**

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## 2 - COMPOSITION/INFORMATION ON INGREDIENTS.

**Substance/preparation of :** preparation of cellulase enzymes.

**Synonyms :** polygalacturonase

**n° IUB:** 3.2.1.15

**CAS n°:** 9032-75-1

**EINECS n°:** 232-88-66.

**Hazard classification:** Xn (noxious), R-42

**Hazard contents :** Enzymatic protein (1-10%).

**Exposure limits:** not available

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## 3 - HAZARD IDENTIFICATION.

**Summary of the main hazards :** Granulated enzymes are produced under a specific process in order to insure a low level of enzymatic dust. Nevertheless an unfortunate manipulation can produce dust, also check the section 6 and 7 for the instructions of manipulation.

**Health effects and symptoms :** An inhalation of dust or aerosols coming from the manipulation can induce allergic reactions to sensitive persons. A long contact with skin can induce a light irritation.

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## 4 - FIRST AID MEASURES.

**Eyes :** Rinse abundantly with water.

**Inhalation :** Stay away from the exposure site. If symptoms of irritation or sensitiveness are showing (short breath, cough,...), call a physician.

**Skin :** Rinse abundantly with water.

**Ingestion :** Rinse carefully the mouth and the throat with water. Drink water.

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## 5 - FIRE FIGHTING MEASURES.

**Fire and explosion protection:** No particular requirements.  
**Extinguishing media:** Water, foam.  
**Extinguishing media to proscribe:** none  
**Particular hazard:** none

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## 6 - ACCIDENTAL RELEASE MEASURE

Eliminate immediately the preparation. Avoid the formation of dust.  
Remove the product with mechanical equipment, preferentially a vacuum cleaner with an high efficiency filter.  
Dilute abundantly the remaining product (residues) with water, avoiding the splashes and the aerosols.  
Ventilate.  
Clean the contaminated clothes.

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## 7 - HANDLING AND STORAGE

**HANDLING:****Technical measures :** Avoid the formation of dust and splashes.**Advise for use:** Do not pressure wash.  
Ventilate the room during the use.**STORAGE:****Temperature :** Room temperature.**Packing material :** Keep into the original packaging.

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## 8 - EXPOSURE CONTROL / PERSONAL PROTECTION.

**Eyes protection:** Glasses or equivalent.  
**Inhalation protection:** Respiratory mask with a P3 filter.  
**Skin protection:** Impervious gloves.

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## 9 - PHYSICAL AND CHEMICAL PROPERTIES

**Aspect :** Granulate.  
**Colour :** Dead white.  
**Other characteristics :** Light odour of fermentation  
**pH:** Not relevant  
**Boiling point:** Not relevant  
**Fusion point:** Not relevant  
**Inflammation point:** Not relevant  
**Pressure of vapour:** Not relevant  
**Density:** Not relevant  
**Solubility:** Not relevant  
Check the technical data sheets for extra information.

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## 10 - STABILITY AND REACTIVITY.

**Stability :** Stable under the regular conditions of use.  
**Condition and material to avoid :** No.  
**Hazardous decomposition products :** No.  
No hazardous by-products after decomposition.

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## 11 - TOXICOLOGICAL INFORMATIONS.

**Inhalation** : Inhale dust or aerosols coming from the non appropriated manipulation can induce a sensitiveness and/or allergic reactions to sensitive persons.

**Skin contact**: A long contact with skin can induce a light irritation.

**Other toxicity data** : The DL 50 of the rat > 2 g/kg of body weight, so that the preparation is classified as non toxic.

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## 12 - ECOLOGICAL INFORMATION.

CL50 (fishes) > 100 mg/l.

CE50 (Daphnia) > 100mg/l.

CL50 (Alga) > 100mg/l.

Classified as non pollutant product for the environment.

The preparation is easily biodegradable.

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## 13 - DISPOSAL CONSIDERATIONS.

**Waste disposal methods** : No specific instruction. Check the local regulation.

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## 14 - TRANSPORTATION INFORMATION.

**UN n°** : not applicable.

**Road/rail ; Sea ; Air**: not applicable.

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## 15 - REGULATORY INFORMATION.

The preparation does not include any ingredients belonging to the list of the hazardous substances of the annex n°1 of the Directive 67/548/CEE. Nevertheless it is an hazardous classified preparation regarding the Directive 88/379/CEE.

**Xn**: noxious.

**R 42**: Can induce a sensitiveness by inhalation.

**S 22**: Do not breath dust and aerosols.

**S 24**: Avoid contact with skin.

**S 36/37**: Wear appropriated clothes and gloves.

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## 16 - OTHER INFORMATION.

The information provided in this MSDS are considered to the date of publication as true and correct. Nevertheless the accuracy and the exhaustiveness of those information, as well as the regulations are provided without warranty.

Because Laffort Oenologie does not control the conditions of use of the products it is under the responsibility of the users to determine the best use for these products.