

MATERIAL SAFETY DATA SHEET
Directive (EEC) 91-155
LAFASE 60 – LAFASE CLARIFICATION – LAFASE FRUIT– LAFASE HE – LAFASE HE
GRAND CRU – LAFASE THERMO
LAFAZYM AROM – LAFAZYM CL- LAFAZYM EXTRACT– LAFAZYM PRESS
OPTIZYM

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Page: 1/2
ind. Rev.: 12

1 – CHEMICAL PRODUCT IDENTIFICATION AND COMPANY IDENTIFICATION

Product: **LAFASE 60 - LAFASE CLARIFICATION - LAFASE FRUIT – LAFASE HE – LAFASE HE GRAND CRU– LAFASE THERMO**
LAFAZYM AROM – LAFAZYM CL – LAFAZYM EXTRACT – LAFAZYM PRESS - OPTIZYM

Generic name: enzymatic preparation

- Supplier LAFFORT - B.P. 17 - 33 015 BORDEAUX CEDEX

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Emergency phone: Contact your local doctor or hospital.

2 – COMPOSITION – INFORMATION ON INGREDIENTS

Chemical characterization of the preparation: enzyme protein.

polygalacturonase: N° IUB: 3.2.1.15 N° CAS: 9032-75-1 N° EINECS: 232-885-6

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

Preparation's classification: Xn (harmful), R-42.

Limit of exposure: not specified

3- HAZARD IDENTIFICATION

The granular enzymes are made according to a special process to insure a low level of enzymatic dust. However, an inadequate manipulation can produce some dust. The instructions of manipulation are described in sections 6 and 7. The inhalation of enzymatic dust or of sprayer resulting from a manipulation can generate a sensitisation and can cause allergic reactions to sensitive individuals. A prolonged contact with the skin can also cause a light irritation.

4 – FIRST AID MEASURES

Contact with skin: Rinse immediately and abundantly with water

Contact with eyes: Rinse abundantly with water

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

Inhalation: Take away from the place of exposure. If symptoms of irritation or sensitisation arise (short or wheezing breath, cough), consult a doctor.

5 – FIRE FIGHTING MEASURES

Protection against fire and explosions: no particular requirement.

Adequate means of extinguishing: water, moss.

Means of extinguishing to be banned: none.

Particular dangers: none.

6 – ACCIDENTAL RELEASE MEASURES

Eliminate the preparation immediately. Avoid the forming of dust. Collect the product by mechanical means, rather with a vacuum cleaner equipped with an efficient filter. Dilute abundantly the remaining product with water. Avoid splashing or washing under pressure (avoid the forming of sprayer). Insure a sufficient ventilation. Wash the soiled clothes.

7 – HANDLING AND STORAGE

Manipulation: avoid the forming of dust. Avoid splashing or washing under pressure. Insure a good ventilation of the premises during the manipulation of the preparation.

Storage: store packaging in cool and dry places.

8 – EXPOSURE CONTROL/PERSONAL PROTECTION

Breathing protection: breathing mask with P3 filter.

Hands protection: waterproof gloves.

Eye protection: goggles or eye mask.

9 – PHYSICAL AND CHEMICAL PROPERTIES

Shape: off-white granule.

The pH, the boiling point, the smell, the fusion point, the ignition temperature, the pressure of vapour, the density and the solubility are not relevant for the safety.

For more information, refer to the Technical and Product sheets.

10 – STABILITY AND REACTIVITY

This preparation is stable in normal conditions of use. No conditions and no materials to avoid. No dangerous products of decomposition.

11 – TOXICOLOGICAL INFORMATION

The inhalation of enzymatic dust or of sprayer resulting from a manipulation can generate a sensitisation and can cause allergic reactions to sensitive individuals. A prolonged contact with the skin can also cause a light irritation. The DL 50 to the rat is > 2g / kg physical weight. The preparation is thus classified "not toxic"

12 – ECOLOGICAL INFORMATION

CL50 (fish) > 100 mg/l, CE50 (daphnia) > 100 mg/l and CL50 (seaweed) > 100 mg/l, which classifies the preparation as « not dangerous » for the environment.

The preparation is easily biodegradable.

13 – DISPOSAL CONSIDERATIONS

No special method of elimination is required, except those corresponding to the current rules fixed by the local authorities.

14 – TRANSPORTATION INFORMATION

UN N°: not applicable

Road / rail: not applicable Sea: not applicable Air: not applicable

15 – REGULATORY INFORMATION

The preparation contains no ingredient appearing on the list of dangerous substances of the appendix 1 of the Directive 67 / 548 / EEC. However, it is a dangerous preparation regarding the Directive 88 / 379 / EEC.

Labelling: Xn: harmful.

R 42: cause a sensitisation by inhalation

S 22: do not inhale dusts / sprayers

S 24: avoid any contact with the skin

S 36/37: wear protection clothes and appropriate gloves

16 - OTHER INFORMATION

The information contained in this safety data sheet is considered, in the date of publication, as true and correct. However the precision and the exhaustiveness of this information, as well as all the rules are given without guarantee.

The conditions of use being out of control of our company, it is therefore up to the user to determine the conditions of the safest use of this preparation
