

MATERIAL SAFETY DATA SHEET (DIRECTIVE 91/155/EEC)



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Micro-granulated Enzymes – PREDENZYM Range

1 - PRODUCT AND COMPAGNY IDENTIFICATION

Product name : Micro-granulated enzymes (PREDENZYM range) : Arom Blanc, Clear Fast, Extract Rouge, Gluca Plus.

Supplier : PRÉDEL

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33450 Saint-Loubès
France
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Uses : Product for enological use

2 - DATA ON COMPONENTS

- Composition : Microbiological enzyme preparation (origin : *Aspergillus niger*) with inert diluent.
- Main enzymatic activity : Polygalacturonase (PG) N° CAS 9032-75-1 / N° EINECS 232-885-6

3 - HEALTH HAZARD IDENTIFICATION

This product is not classified in the Annex I of Directive 67/548/EEC.

- Harmful product : May cause sensitisation by inhalation (**R42**).

4 - FIRST AID MEASURES

- Inhalation : Remove person from danger area. Supply person with fresh air and consult doctor according to symptoms.
- Eye contact : Wash thoroughly for several minutes using copious water. Call doctor immediately, have Data Sheet available.
- Skin contact : Wash thoroughly using copious water. Remove contaminated clothing immediately. If skin irritation occurs (redness etc...), consult doctor.
- Ingestion : Give copious water to drink. Consult doctor if necessary.

5 - FIRE FIGHTING MEASURES

- Suitable extinguishing media : Adapt to the nature and extent of fire.
- Combustion products : In case of fire the following can develop : Oxides of carbon, Oxides of nitrogen, Oxides of sulphur, Gases hazardous to health.
- Special protective equipment : Protective respiratory with independent air supply, full protection if necessary.
- Further information : Dispose of contaminated extinction water according to official regulations.

6 - ACCIDENTAL RELEASE MEASURES

- Personal precautions : Ensure sufficient supply of air. Avoid inhalation, and contact with eyes or skin. Recommended : no contact with products of this type in case of allergies, asthma and chronic respiratory tract disorders.
- Environmental measures : Prevent from entering drainage system. If leakage occurs, dam up.
- Methods for cleaning up : Collect using absorbant material (e.g. Universal binding medium). Flush residue using copious water. Clean soiled bottles immediately.

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7 - HANDLING AND STORAGE

- Handling : Observe directions on label and instructions for use. Ensure good ventilation. General hygiene measures for the handling of chemicals are applicable. Recommended : exposed employees should have regular medical check-ups. During transfer operations : Switch on available suction system.
- Storage : Requirements for storage rooms and containers : Store products only unopened, in original packing. Not to be stored in gangways or stair wells. Special storage conditions (Liquids) : Only store at temperatures from 0°C to 8°C. Protect from frost.

8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Ensure good ventilation. This can be achieved by local suction or general air extraction. If this is sufficient to maintain the concentration under the OES, MEL or MAK values, suitable breathing protection should be worn.

- Respiratory protection : If fumes build up, use suitable breathing mask. With formation of mist : Filter A3 P3 (EN 141).
- Hand protection : Rubber gloves (EN 374). Protective hand cream recommended.
- Eye protection : Tight fitting protective goggles with side protection (EN 166).
- Skin protection : Protective working garments (e.g. safety shoes EN 344, long-sleeved protective working garments).

9 - PHYSICAL AND CHEMICAL PROPERTIES

- Physical state : Granulated / powder
- Colour : White-cream, beige
- Odour : Low
- pH : 7 (10% in water)
- Density : 525 – 650Kg/m³ (at 20°C)
- Solubility in water : Soluble

10 - STABILITY AND REACTIVITY

Product stable under normal operating conditions.

- Conditions to avoid : Heating.

11 - TOXICOLOGICAL INFORMATION

- May occur : Irritation of eyes. With long-term contact : irritation of the skin Sensitive individuals : allergic reactions possible. In case of sensitivity, concentrations below the limit value may already result in asthmatic symptoms.

12 - ECOLOGICAL INFORMATION

- Water hazard class : 1
- Self classification : Yes

13 - DISPOSAL CONSIDERATIONS

- Product : Wash out the residues with water or neutralise them with lime or calcium carbonate and then wash with water. Dispose the product in accordance with local laws and regulations.
- Contaminated packaging : Empty the packaging accurately and dispose them depending on the material.

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14 - TRANSPORT INFORMATION

Product non subject to ADR/RID, IMO and IATA regulations, related to road, sea and airway transport of dangerous goods.

15 - REGULATORY INFORMATION

EC Labelling :



- Hazard symbol : Xn – Harmful
- Risk phrase : R42 : May cause sensitisation by inhalation.

16 - 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.