

## SAFETY DATA SHEET

Revision date: 2023/08/07

Code of Practice - Preparation of Safety Data Sheets for Hazardous Chemicals

# Lumista® Gold

## 1. PRODUCT IDENTIFIER & IDENTITY FOR THE CHEMICAL

Product Name Lumista® Gold  
Chemical Name Enzyme preparation  
Declared activity Prolyl oligopeptidase

Use of the substance/preparation

Novozymes' enzyme preparations are biocatalysts used in a variety of industrial processes within food manufacturing

Company/Undertaking Identification

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Emergency Telephone Number

+61 421 522 383 and +61 430 127 664 (24 hours)

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## 2. HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

Not Hazardous Not a dangerous substance or mixture according to the Globally Harmonised System (GHS)

### 2.2. Label elements

Signal word

none

Precautionary Statements

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P284 - In case of inadequate ventilation wear respiratory protection

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician

P402 + P404 - Store in a dry place. Store in a closed container

P501 - Dispose of contents/containers in accordance with local regulations

### 2.3. Other hazards

Human health effects

Repeated inhalation of enzyme dust or aerosols resulting from improper handling may induce sensitization and may cause allergic type 1 reactions in sensitized individuals

Mild skin irritation

**Rethink Tomorrow**

novozymes® 

Mild eye irritation

Physical and Chemical Hazards                      None known

Specific hazards    None known

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Not a dangerous substance or mixture according to the Globally Harmonised System (GHS)**

Active enzyme protein (aep) is the part of the enzyme concentrate contributing to the classification of the mixture.

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### 4. FIRST AID MEASURES

In case of unintended overexposure, the following measures apply

#### Inhalation

Effects

May cause allergic respiratory reaction

Symptoms

Shortness of breath, wheezing and coughing

The effect of inhalation may be delayed

First Aid

Remove person to fresh air. If signs/symptoms continue, get medical attention

Show this safety data sheet to the doctor in attendance

#### Skin Contact

Effects

May cause slight irritation

Symptoms

Slight irritation

First Aid

Remove and wash contaminated clothing before re-use. Wash off immediately with plenty of water. If symptoms persist, call a doctor. Show this safety data sheet to the doctor in attendance.

#### Eye Contact

Effects

May cause slight irritation

Symptoms

Slight irritation

First Aid

Hold eye open and rinse slowly and gently with water for 15-20 min. Remove contact lenses, if present, after the first five minutes, then continue rinsing eye. If symptoms persist, call a doctor. Show this safety data sheet to the doctor in attendance

#### Ingestion

Effects

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea

Symptoms

Irritation

First Aid

Rinse mouth with water and drink plenty of water. If symptoms persist, call a doctor. Show this safety data sheet to the doctor in attendance.

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### 5. FIREFIGHTING MEASURES

Suitable Extinguishing Media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media

None.

Hazardous Combustion Products

None.

Specific Hazards Arising from the Chemical May cause allergic respiratory reaction.

Protective Equipment and Precautions for Self-contained breathing apparatus.

Firefighters

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## 6. ACCIDENTAL RELEASE MEASURES

|                           |  |
|---------------------------|--|
| Personal Precautions      | For personal protection see section 8.   |
| Environmental Precautions | Collect spillage.  |
| Methods for cleaning up   | Avoid formation of dust and aerosols.<br><br>Spilled preparation should be removed immediately to avoid formation of dust from dried preparation. Take up by mechanical means preferably by a vacuum cleaner equipped with a high efficiency filter. Flush remainder carefully with plenty of water. Avoid splashing and high pressure washing (avoid formation of aerosols). Ensure sufficient ventilation. Wash contaminated clothing. |
| Other Information         | For personal protection see section 8.   |

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## 7. HANDLING AND STORAGE

|          |   |
|----------|---|
| Handling | Avoid formation of dust and aerosols.<br>Ensure adequate ventilation.<br>Liquid enzyme preparations are dustfree preparations. However, inappropriate handling may cause formation of dust or aerosols. |
| Storage  | Keep tightly closed in a dry and cool place. The product can be transported at ambient temperature. Following delivery, the product should be stored as recommended. Temperature 0-10 °C (32-50 °F).    |

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure controls

Personal Protective Equipment

|                                 |  |
|---------------------------------|--|
| Respiratory protection          | In case of insufficient ventilation wear an approved mask with a particle filter type P3 used according to the manufactures instruction.         |
| Eye Protection                  | Wear safety glasses with side shields (or goggles).  |
| Skin Protection                 | Long sleeved clothing.   |
| Hand Protection                 | Skin should be washed after contact.   |
| General Hygiene Considerations  | Handle in accordance with good industrial hygiene and safety practice.   |
| Environmental exposure controls | Local authorities should be advised if significant spillages cannot be contained.<br>Waste water should be discharged to sewage treatment plant. |

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

|                   |  |
|-------------------|--|
| Physical State    | Liquid   |
| Colour            | Light yellow to brown  |
| Odour             | Slight fermentation odor   |
| Density (g/ml)    | 1.17   |
| pH                | Adjusted to the range where active enzyme is stable – typically pH 4 – 9   |
| Solubility        | Active component is readily soluble in application-relevant solutions at all levels of concentration, temperature and pH which may occur in normal usage |
| Other information | No information available   |

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## 10. STABILITY AND REACTIVITY

|                                    |   |
|------------------------------------|---|
| Chemical stability                 | Stable under recommended storage conditions |
| Conditions to Avoid                | None  |
| Materials to avoid                 | None  |
| Hazardous Decomposition Products   | None  |
| Possibility of hazardous reactions | None  |

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## 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Skin contact Mild skin irritation  
Eye contact Mild eye irritation  
Ingestion

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## 12. ECOLOGICAL INFORMATION

Toxicity

Persistence/Degradability

Mobility in soil Not relevant

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## 13. DISPOSAL CONSIDERATIONS

|                        |  |
|------------------------|--|
| Disposal of wastes     | Dispose of in accordance with local regulations  |
| Contaminated Packaging | Dispose of wastes in an approved waste disposal facility   |
| Other information      | Waste codes should be assigned by the user based on the application for which the product was used |

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## 14. TRANSPORT INFORMATION

### Transport Regulations

No dangerous goods according to transport regulations  
No special precautions required

UN number not applicable

Transport hazard class(es) not applicable

Packing group not applicable

Environmental hazards Not applicable

Special precautions for user not applicable

Transport in bulk according to Annex II of MARPOL and the IBC Code not applicable

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## 15. REGULATORY INFORMATION

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

The product complies with the recommended purity specifications for food-grade enzymes given by the Joint FAO/WHO Expert Committee on Food Additives (JECFA) and the Food Chemical Codex (FCC).

Please check the consequences of national regulations on this product yourself.

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## 16. OTHER INFORMATION

### GHS-Classification

The GHS calculation method has been used for classification of this mixture.

### Further information

This SDS is compiled according to the UN GHS rev. 5 Guideline.

### Training advice

Details on the safe handling of this product are located in the Novozymes Customer Center Document Library on [www.mynovozymes.com](http://www.mynovozymes.com). For further information please consult available product documentation including 'Product Application Guidelines' and/or 'Application Sheets', which are available on [market.novozymes.com](http://market.novozymes.com) or from Novozymes sales representatives.

### Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text. Furthermore, as the conditions of use are beyond the control of Novozymes, it is the responsibility of the customer to determine the conditions of safe use of these products.

End of Safety Data Sheet

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