

# Sensea® Wrap G

## 1. PRODUCT AND COMPANY IDENTIFICATION

|                   |                                   |
|-------------------|-----------------------------------|
| Product Name      | Sensea® Wrap G                    |
| Chemical Name     | Enzyme preparation                |
| Declared activity | Maltogenic amylase, Alpha-amylase |

|                                  |                                                                                                                     |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Use of the substance/preparation | Novozymes' enzyme preparations are biocatalysts used in a variety of industrial processes within food manufacturing |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------|

Supplier's details  
Novozymes North America, Inc.  
77 Perry Chapel Church Rd., Box 576  
Franklinton, NC 27525  
E-mail: [SafetyDataSheet@novozymes.com](mailto:SafetyDataSheet@novozymes.com)  
[www.novozymes.com](http://www.novozymes.com)

Information Telephone Number  
1-919-494-3000, 8 am - 4:30 pm EST M-F

Emergency Telephone Number  
1-800-424-9300 (Chemtrec) 24 hours every day

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### 2. HAZARD IDENTIFICATION

#### Classification

Classification of the chemical in accordance with 29CFR §1910.1200  
WHMIS Classification

Respiratory sensitization Category 1

#### Label elements

Danger

#### Hazard statements

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

#### Precautionary Statements - Prevention

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

P284 - In case of inadequate ventilation wear respiratory protection

#### Precautionary Statements - Response

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

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



Hazards not otherwise classified (HNOC)

|   |                      |
|---|----------------------|
| 1 | Health               |
| 1 | Flammability         |
| 0 | Reactivity           |
| X | Protective Equipment |



### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical name            | CAS No      | IUB No.   | Weight-% |
|--------------------------|-------------|-----------|----------|
| Alpha-amylase (aep.)     | 9000-90-2   | 3.2.1.1   | 5 - 10   |
| Maltogenic amylase (aep) | 160611-47-2 | 3.2.1.133 | 0.1- < 1 |

aep (active enzyme protein) contributes to the GHS classification.

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### 4. FIRST AID MEASURES

In case of unintended overexposure, the following measures apply

#### Inhalation

Effects

Symptoms

May cause allergic respiratory reaction.

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

Symptoms

First Aid

May cause slight irritation.

Slight irritation.

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

Symptoms

First Aid

May cause slight irritation.

Slight irritation.

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

Symptoms

First Aid

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Irritation.

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. FIRE-FIGHTING MEASURES

Flammable Properties

Slightly flammable according to HMIS criteria.

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 Firefighters Self-contained breathing apparatus and standard turn-out apparel

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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.

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 HEPA (High Efficiency Particulate Air) filter. Flush remainder carefully with plenty of water. Avoid splashing, high pressure washing or compressed air cleaning to avoid formation of aerosols. Ensure sufficient ventilation. Wash

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contaminated clothing.

Other Information

For personal protection see section 8.

### 7. HANDLING AND STORAGE

Handling

Avoid formation of dust and aerosols.  
Ensure adequate ventilation.  
This product is formulated to prevent formation of dust  
However, inappropriate handling may release dust

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 0-25 °C (32-77 °F)

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| Chemical name            | DNEL Dermal Acute Local (Workers) | DMEL Inhalation Long term Local (Workers) |
|--------------------------|-----------------------------------|-------------------------------------------|
| Alpha-amylase (aep.)     | -                                 | DMEL = 60 ng/m <sup>3</sup>               |
| Maltogenic amylase (aep) | -                                 | DMEL = 60 ng/m <sup>3</sup>               |

Derived No Effect Level (DNEL)  
Derived Minimal Effect Level (DMEL)

Occupational exposure controls  
Engineering Controls

Ensure adequate ventilation, especially in confined areas.  
Maintain good conditions of industrial hygiene. Some processes may require enclosures, local exhaust ventilation, or other engineering controls to control airborne levels. Additional handling and healthy/safety information is available upon request

Personal Protective Equipment  
Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment that meets HEPA/P100 specifications

Eye Protection  
Skin and body protection

Wear safety glasses with side shields (or goggles)  
No special technical protective measures are necessary

General Hygiene Considerations  
Environmental exposure controls

Handle in accordance with good industrial hygiene and safety practice  
Local authorities should be advised if significant spillages cannot be contained

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

|                                |                          |
|--------------------------------|--------------------------|
| Physical State                 | granulate                |
| Color                          | Light to dark brown      |
| Odor                           | Slight fermentation odor |
| pH                             | No data available        |
| Melting point / freezing point | No data available        |
| Boiling Point/Range            | No data available        |
| Flash Point                    | Not determined           |

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|                                              |                                                                                                                                       |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Evaporation rate                             | Not available                                                                                                                         |
| Flammability (solid, gas)                    | Not determined                                                                                                                        |
| Upper/lower flammability or explosive limits | Not available                                                                                                                         |
| Vapor Pressure                               | No data available                                                                                                                     |
| Vapor density                                | Not available                                                                                                                         |
| Density (g/ml)                               | 0.6                                                                                                                                   |
| Solubility                                   | Readily soluble in application-relevant solutions at all levels of concentration, temperature and pH which may occur in normal usage. |
| Partition Coefficient (n-octanol/water)      | No data available                                                                                                                     |
| Autoignition temperature                     | Not available                                                                                                                         |
| Decomposition temperature                    | Not available                                                                                                                         |
| Viscosity                                    | Not available                                                                                                                         |
| Other information                            | No information available                                                                                                              |

### 10. STABILITY AND REACTIVITY

|                                    |                                             |
|------------------------------------|---------------------------------------------|
| Reactivity                         | Not relevant                                |
| Chemical stability                 | Stable under recommended storage conditions |
| Possibility of hazardous reactions | None under normal processing                |
| Conditions to Avoid                | Avoid destruction of granulate              |
| Incompatible materials             | None                                        |
| Hazardous Decomposition Products   | None                                        |

### 11. TOXICOLOGICAL INFORMATION

Information on toxicological 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  
Mild eye irritation

| Chemical name            | Acute oral toxicity                      | Acute inhalation toxicity | Skin corrosion/irritation    | Serious eye damage/eye irritation |
|--------------------------|------------------------------------------|---------------------------|------------------------------|-----------------------------------|
| Alpha-amylase (aep.)     | LD50: > 2000 mg/kg bw (OECD TG 401, 420) |                           | Not irritating (OECD TG 404) | Not irritating (OECD TG 405)      |
| Maltogenic amylase (aep) | LD50: > 2000 mg/kg bw (OECD TG 401, 420) |                           | Not irritating (OECD TG 404) | Not irritating (OECD TG 405)      |

| Chemical name            | Specific target organ toxicity (single exposure) | Genetic toxicity                                      | Skin sensitization | Respiratory sensitization     |
|--------------------------|--------------------------------------------------|-------------------------------------------------------|--------------------|-------------------------------|
| Alpha-amylase (aep.)     |                                                  | No indication of mutagenic effects (OECD TG 471, 476) |                    | Sensitizer (Human experience) |
| Maltogenic amylase (aep) |                                                  | No indication of mutagenic effects (OECD TG 471, 476) |                    | Sensitizer (Human experience) |

### 12. ECOLOGICAL INFORMATION

Toxicity

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| Chemical name            | Daphnia, acute                                     | Algae, acute                                    | Fish, acute                                          |
|--------------------------|----------------------------------------------------|-------------------------------------------------|------------------------------------------------------|
| Alpha-amylase (aep.)     | EC50 (48 hours): 31.7 - 457 mg aep/l (OECD TG 202) | ErC50 (72 hours): >= 5.2 mg aep/l (OECD TG 201) | LC50 (96 hours): 58.3 - 326.7 mg aep/l (OECD TG 203) |
| Maltogenic amylase (aep) | EC50 (48 hours): 31.7 - 457 mg aep/l (OECD TG 202) | ErC50 (72 hours): >= 5.2 mg aep/l (OECD TG 201) | LC50 (96 hours): 58.3 - 326.7 mg aep/l (OECD TG 203) |

### Persistence/Degradability

| Chemical name            | Persistence and degradability     | Partition coefficient (n-octanol/water) |
|--------------------------|-----------------------------------|-----------------------------------------|
| Alpha-amylase (aep.)     | Readily biodegradable (OECD 301F) | LogPow: <0                              |
| Maltogenic amylase (aep) | Readily biodegradable (OECD 301)  | LogPow: <0                              |

| Chemical name            | Bioaccumulative Potential |
|--------------------------|---------------------------|
| Alpha-amylase (aep.)     | Does not bioaccumulate    |
| Maltogenic amylase (aep) | Does not bioaccumulate    |

Mobility in soil Not relevant

Other adverse effects No information available

## 13. DISPOSAL CONSIDERATIONS

Disposal of wastes Dispose of in accordance with local regulations.

Contaminated Packaging Dispose of wastes in an approved waste disposal facility.

## 14. TRANSPORT INFORMATION

### Transport Regulations

No dangerous goods according to transport regulations

No special precautions required

UN-No Not applicable

Proper Shipping Name Not applicable

Packing Group Not applicable

Reportable Quantity (RQ) Not applicable

Marine Pollutant Not applicable

### International Regulations

IATA Not regulated

IMDG Not regulated

## 15. REGULATORY INFORMATION

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).

### USA, Federal Regulations

TSCA Inventory

The active ingredient and all components of the enzyme preparation are listed on the TSCA inventory

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and 40 CFR Part 372.

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### SARA 311/312 Hazardous Categorization

|                                   |    |
|-----------------------------------|----|
| Acute health hazard               | No |
| Chronic Health Hazard             | No |
| Fire hazard                       | No |
| Sudden Release of Pressure Hazard | No |
| Reactive Hazard                   | No |

### USA, State Regulations

California Proposition 65

This product does not contain any intentionally added Proposition 65 chemicals.

### Canada

DSL/NDSL

Compliant with the Canadian Environmental Protection Act 1999 (CEPA) and the New Substance Notification Regulations in Canada

### WHMIS Statement

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by WHMIS 2015.

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## 16. OTHER INFORMATION

|                 |                                                                                                                                                                            |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Training advice | Details on the safe handling of this product are located in the Novozymes Customer Center Document Library on <a href="http://www.mynovozymes.com">www.mynovozymes.com</a> |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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

|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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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