

## SAFETY DATA SHEET

Revision date: 2024/07/18

REACH Regulation (EC) no. 1907/2006

# VinoTaste® Pro

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

|                                 |                                                |
|---------------------------------|------------------------------------------------|
| Product Name                    | VinoTaste® Pro                                 |
| Chemical Name                   | Enzyme preparation                             |
| Declared activity               | Polygalacturonase<br>Beta-glucanase (exo-1,3-) |
| Unique Formula Identifier (UFI) | 70R4-W0WQ-2001-9EWQ                            |

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

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

### 1.3. Details of the supplier of the safety data sheet

Novozymes A/S  
Krogshoejvej 36  
2880 Bagsvaerd  
Denmark  
Tel.: +45 44460000  
Fax.: +45 44469999  
E-mail: SafetyDataSheet@novozymes.com  
www.novozymes.com

### 1.4. Emergency telephone number

+45 44462223 (24/7)

### National helpdesk

CY: +35722405611  
IR: + 353 1 809 2166  
MT: +356 2395 2000

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## SECTION 2: Hazard identification

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Respiratory sensitisation

Category 1

### 2.2 Label elements



Contains Polygalacturonase (aep); Beta-glucanase (aep)

### Signal word

Danger

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# SAFETY DATA SHEET

VinoTaste® Pro  
Revision date: 2024/07/18

Page

2 / 8

## Hazard statements

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

## Precautionary Statements - EU (§28, 1272/2008)

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

P280 - Wear protective gloves/protective clothing and eye/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

## 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

Mild eye irritation

### Endocrine disrupting properties

This product does not contain any substance with endocrine disrupting properties with respect to non-target organisms and humans in accordance with Article 59(1).

## Effects of overexposure

See Section 4

The mixture does not meet the criteria for PBT or vPvB.

See Section 11 and 12 for additional Toxicological information

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

| Chemical name           | Weight-% | CAS No.   | EC No (EU Index No) | CLP Classification (No 1272/2008) | Specific concentration limit (SCL) | M-Factor |
|-------------------------|----------|-----------|---------------------|-----------------------------------|------------------------------------|----------|
| Polygalacturonase (aep) | 1 - <2.5 | 9032-75-1 | 232-885-6           | Resp. Sens. 1;H334                | -                                  | 1        |
| Beta-glucanase (aep)    | 1 - <2.5 | 9074-98-0 | 232-979-7           | Resp. Sens. 1;H334                | -                                  | 1        |

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

## Regulatory information \*

| Chemical name     | Weight-% | IUB No.  | REACH Registration No |
|-------------------|----------|----------|-----------------------|
| Polygalacturonase | 2.5 - <5 | 3.2.1.15 | -                     |
| Beta-glucanase    | 2.5 - <5 | 3.2.1.X  | -                     |

\*: In the scope of REACH registration enzymes are defined as enzyme concentrate (dry matter basis)

Full text of H- and EUH-phrases: see section 16

## Acute Toxicity Estimate

No information available

| Chemical name           | mg/kg oral LD50 (rat) | Dermal LD50 | Inhalation LC50 - 4 hour - dust/mist - mg/L | Inhalation LC50 - 4 hour - vapour - mg/L | Inhalation LC50 - 4 hour - gas - ppm |
|-------------------------|-----------------------|-------------|---------------------------------------------|------------------------------------------|--------------------------------------|
| Polygalacturonase (aep) | -                     | -           | -                                           | -                                        | -                                    |

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# SAFETY DATA SHEET

VinoTaste® Pro  
Revision date: 2024/07/18

Page

3 / 8

| Chemical name        | mg/kg oral LD50 (rat) | Dermal LD50 | Inhalation LC50 - 4 hour - dust/mist - mg/L | Inhalation LC50 - 4 hour - vapour - mg/L | Inhalation LC50 - 4 hour - gas - ppm |
|----------------------|-----------------------|-------------|---------------------------------------------|------------------------------------------|--------------------------------------|
| Beta-glucanase (aep) | -                     | -           | -                                           | -                                        | -                                    |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### 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.

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.

### 4.2. Most important symptoms and effects, both acute and delayed

See section 4.1

### 4.3. Indication of any immediate medical attention and special treatment needed

Notes to Physician

Treat symptomatically

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable Extinguishing Media

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

Unsuitable Extinguishing Media

None

Hazardous Combustion Products

None

### 5.2. Special hazards arising from the substance or mixture

May cause allergic respiratory reaction

### 5.3. Advice for firefighters

Self-contained breathing apparatus

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# SAFETY DATA SHEET

VinoTaste® Pro  
Revision date: 2024/07/18

Page

4 / 8

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

For personal protection see section 8

### 6.2. Environmental precautions

Collect spillage

### 6.3. Methods and material for containment and 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 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.

### 6.4. Reference to other sections

For personal protection see section 8

## SECTION 7: Handling and storage

### 7.1. Precautions for safe 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

See section 16 for Training advice.

### 7.2. Conditions for safe storage, including any incompatibilities

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. 0-25 °C (32-77 °F)

Storage Class (TRGS 510)

### 7.3. Specific end use(s)

Handle in accordance with good industrial hygiene and safety practice

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Not applicable

#### DNEL/DMEL/PNEC

| Chemical name           | DNEL Dermal Acute Local (Workers) | DMEL Inhalation Long term Local (Workers) |
|-------------------------|-----------------------------------|-------------------------------------------|
| Polygalacturonase (aep) | -                                 | DMEL = 60 ng/m <sup>3</sup>               |
| Beta-glucanase (aep)    | -                                 | DMEL = 60 ng/m <sup>3</sup>               |

Derived No Effect Level (DNEL)

Derived Minimal Effect Level (DMEL)

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## SAFETY DATA SHEET

VinoTaste® Pro  
Revision date: 2024/07/18

Page

5 / 8

### 8.2. Exposure controls

Ensure adequate ventilation, especially in confined areas

#### Personal Protective Equipment

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

Waste water should be discharged to sewage treatment plant

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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                                                          |                                                                                                                                       |
|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Physical State                                           | granulate                                                                                                                             |
| Colour                                                   | Off-white and brown                                                                                                                   |
| Odour                                                    | Slight fermentation odor                                                                                                              |
| Melting point / freezing point                           | No information available                                                                                                              |
| Boiling point or initial boiling point and boiling range | No information available                                                                                                              |
| Flammability                                             | No information available                                                                                                              |
| Lower and upper explosion limit/flammability limit       | No information available                                                                                                              |
| Flash Point                                              | Not applicable                                                                                                                        |
| Autoignition temperature                                 | No information available                                                                                                              |
| Decomposition temperature                                | No information available                                                                                                              |
| pH                                                       | No data available                                                                                                                     |
| Kinematic viscosity                                      | No information available                                                                                                              |
| 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 information available                                                                                                              |
| Vapour Pressure                                          | No information available                                                                                                              |
| Density (g/ml)                                           | 0.65                                                                                                                                  |
| Relative vapour density                                  | No information available                                                                                                              |
| Particle characteristics                                 | No information available                                                                                                              |

### 9.2. Other information

|                   |                          |
|-------------------|--------------------------|
| Other information | No information available |
|-------------------|--------------------------|

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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Not relevant

### 10.2. Chemical stability

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## SAFETY DATA SHEET

VinoTaste® Pro  
Revision date: 2024/07/18

Page

6 / 8

Stable under recommended storage conditions

### 10.3. Possibility of hazardous reactions

None under normal processing

### 10.4. Conditions to avoid

Avoid destruction of granulate

### 10.5. Incompatible materials

None

### 10.6. Hazardous decomposition products

None

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Information on toxicological effects (component level)

|                                                           |                                                            |
|-----------------------------------------------------------|------------------------------------------------------------|
| <b>Chemical name</b>                                      | Polygalacturonase (aep)                                    |
| <b>Acute oral toxicity</b>                                | LD50: > 2000 mg/kg bw (OECD TG 401, 420)                   |
| <b>Acute inhalation toxicity</b>                          | No data available                                          |
| <b>Skin corrosion/irritation</b>                          | Not irritating (OECD TG 404)                               |
| <b>Serious eye damage/eye irritation</b>                  | Not irritating (OECD TG 405)                               |
| <b>Respiratory sensitisation</b>                          | Sensitizer (Human experience)                              |
| <b>Skin sensitisation</b>                                 | No data available                                          |
| <b>Genetic toxicity</b>                                   | No indication of mutagenic effects (OECD TG 471, 476, 487) |
| <b>Carcinogenicity</b>                                    | No data available                                          |
| <b>Reproductive toxicity</b>                              | No data available                                          |
| <b>Specific target organ toxicity — single exposure</b>   | No data available                                          |
| <b>Specific target organ toxicity - repeated exposure</b> | No data available                                          |
| <b>Aspiration hazard</b>                                  | No data available                                          |
| <b>Chemical name</b>                                      | Beta-glucanase (aep)                                       |
| <b>Acute oral toxicity</b>                                | LD50: > 2000 mg/kg bw (OECD TG 401, 420)                   |
| <b>Acute inhalation toxicity</b>                          | No data available                                          |
| <b>Skin corrosion/irritation</b>                          | Not irritating (OECD TG 404)                               |
| <b>Serious eye damage/eye irritation</b>                  | Not irritating (OECD TG 405)                               |
| <b>Respiratory sensitisation</b>                          | Sensitizer (Human experience)                              |
| <b>Skin sensitisation</b>                                 | No data available                                          |
| <b>Genetic toxicity</b>                                   | No indication of mutagenic effects (OECD TG 471, 476, 487) |
| <b>Carcinogenicity</b>                                    | No data available                                          |
| <b>Reproductive toxicity</b>                              | No data available                                          |
| <b>Specific target organ toxicity — single exposure</b>   | No data available                                          |
| <b>Specific target organ toxicity - repeated exposure</b> | No data available                                          |
| <b>Aspiration hazard</b>                                  | No data available                                          |

#### Information on toxicological effects (product level)

**Actual Product Data** No information available

### 11.2. Information on other hazards

#### Endocrine disrupting properties

This product does not contain any substance with endocrine disrupting properties with respect to non-target organisms and humans in accordance with Article 59(1).

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## SAFETY DATA SHEET

VinoTaste® Pro  
Revision date: 2024/07/18

Page

7 / 8

### Other information

No information available

## SECTION 12: Ecological information

### 12.1. Toxicity

| Chemical name           | Daphnia, acute                                     | Acute fish toxicity =                                | Algae, Acute                                    |
|-------------------------|----------------------------------------------------|------------------------------------------------------|-------------------------------------------------|
| Polygalacturonase (aep) | EC50 (48 hours): 31.7 - 457 mg aep/l (OECD TG 202) | LC50 (96 hours): 58.3 - 326.7 mg aep/l (OECD TG 203) | ErC50 (72 hours): >= 5.2 mg aep/l (OECD TG 201) |
| Beta-glucanase (aep)    | EC50 (48 hours): 31.7 - 457 mg aep/l (OECD TG 202) | LC50 (96 hours): 58.3 - 326.7 mg aep/l (OECD TG 203) | ErC50 (72 hours): >= 5.2 mg aep/l (OECD TG 201) |

### 12.2. Persistence and degradability

| Chemical name           | Persistence and degradability     | Partition coefficient (n-octanol/water) |
|-------------------------|-----------------------------------|-----------------------------------------|
| Polygalacturonase (aep) | Readily biodegradable (OECD 301)  | LogPow: <0                              |
| Beta-glucanase (aep)    | Readily biodegradable (OECD 301E) | LogPow: <0                              |

### 12.3. Bioaccumulative potential

| Chemical name           | Bioaccumulative potential |
|-------------------------|---------------------------|
| Polygalacturonase (aep) | Does not bioaccumulate    |
| Beta-glucanase (aep)    | Does not bioaccumulate    |

### 12.4. Mobility in soil

Not relevant

### 12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB

### 12.6. Endocrine disrupting properties

This product does not contain any substance with endocrine disrupting properties with respect to non-target organisms and humans in accordance with Article 59(1).

### 12.7. Other adverse effects

No information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Dispose of in accordance with local regulations

Waste water should be discharged to sewage treatment plant

Waste codes should be assigned by the user based on the application for which the product was used

## SECTION 14: Transport information

### Transport Regulations

No dangerous goods according to transport regulations

No special precautions required

IATA  
IMDG

Not regulated  
Not regulated

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## SAFETY DATA SHEET

VinoTaste® Pro  
Revision date: 2024/07/18

Page

8 / 8

|                                                         |                |
|---------------------------------------------------------|----------------|
| <b>14.1</b>                                             |                |
| UN number or ID number                                  | Not relevant   |
| <b>14.2</b>                                             |                |
| UN proper shipping name                                 | Not applicable |
| <b>14.3</b>                                             |                |
| Transport hazard class(es)                              | Not applicable |
| <b>14.4</b>                                             |                |
| Packing group                                           | Not applicable |
| <b>14.5</b>                                             |                |
| Environmental hazards                                   | Not applicable |
| <b>14.6</b>                                             |                |
| Special precautions for user                            | Not applicable |
| <b>14.7</b>                                             |                |
| Maritime transport in bulk according to IMO instruments | Not applicable |

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## SECTION 15: Regulatory information

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

WGK Classification slightly hazardous to water (WGK 1)

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).

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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## SECTION 16: Other information

### Full text of H-Statements referred to under section 3

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

### CLP Classification

Safety data sheet according to REACH Regulation (EC) no. 1907/2006 amended by Regulation (EU) no. 2020/878.

According to Commission Delegated Regulation (EU) 2021/849 of 11 March 2021, 18 ATP, amendment of regulation (EC) No. 1272/2008 CLP

### Further information

For further information please consult available product documentation including 'Product Application Guidelines' and/or 'Application Sheets', which are available on [market.novozymes.com](https://market.novozymes.com) or from Novozymes sales representatives.

### Training advice

Details on the safe handling of this product can be found in the "Handling enzymes" on [market.novozymes.com](https://market.novozymes.com)

### 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

Version No: 3 / EU / 2024/07/18

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