

## SAFETY DATA SHEET

Revision date: 2026/04/23

Compliant with 29 CFR §1910.1200 HCS 2012

Compliant with HPR WHMIS 2015

# Medley® Brilliant 300 L

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** Medley® Brilliant 300 L  
**Chemical Name** Enzyme preparation  
**Declared activity** Protease (Subtilisin), Alpha-amylase, Pectate Lyase, Mannanase (Mannan endo-1,4-beta-mannosidase), Lipase, Cellulase

**Use of the substance/preparation** Novozymes' enzyme preparations are biocatalysts used in a variety of industrial processes and in certain consumer products

### 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

Initial Supplier Identifier  
Données relatives au fournisseur

**Univar Solutions Canada Ltd.**

64 Arrow Road  
North York, ON M9M 2L9  
Telephone: 1-866-686-4827

# SAFETY DATA SHEET

Medley® Brilliant 300 L  
Revision date: 2026/04/23

Page

2 / 9

## 2. HAZARD IDENTIFICATION

### Classification

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

Serious eye damage/eye irritation                      Category 2A  
Respiratory sensitization                                      Category 1  
The classification of eye effects is based on testing of a similar mixture.

### Label elements

#### Danger

#### Hazard statements

H319 - Causes serious eye irritation  
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

#### Precautionary Statements - Prevention

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P284 - In case of inadequate ventilation wear respiratory protection

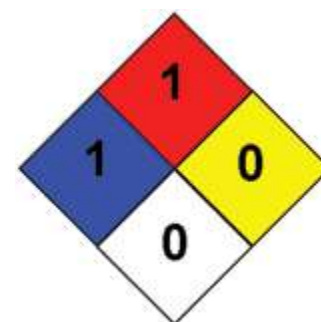
#### Precautionary Statements - Response

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
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-%
Protease (Subtilisin) (aep.)	9014-01-1	3.4.21.62	1 – <2.5
Cellulase (aep.)	9012-54-8	3.2.1.4	0.1 – <1
Alpha-amylase (aep.)	9000-90-2	3.2.1.1	0.1 – <1
Lipase (aep)	9001-62-1	3.1.1.3	0.1 – <1

Rethink Tomorrow

novozymes 

# SAFETY DATA SHEET

Medley® Brilliant 300 L  
Revision date: 2026/04/23

Page

3 / 9

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

---

## 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	Irritating to eyes.
Symptoms	Irritation. Redness.
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 diarrhea.
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..

---

## 5. FIRE-FIGHTING MEASURES

<b>Flammable Properties</b>	Slightly flammable according to HMIS criteria.
<b>Suitable Extinguishing Media</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>Unsuitable Extinguishing Media</b>	None.
<b>Hazardous Combustion Products</b>	None.
<b>Specific Hazards Arising from the Chemical</b>	May cause allergic respiratory reaction
<b>Protective Equipment and Precautions for Firefighters</b>	Self-contained breathing apparatus and standard turn-out apparel

---

## 6. ACCIDENTAL RELEASE MEASURES

Rethink Tomorrow

novozymes 

# SAFETY DATA SHEET

Medley® Brilliant 300 L  
Revision date: 2026/04/23

Page

4 / 9

**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 contaminated clothing.

**Other Information** For personal protection see section 8.

## 7. HANDLING AND STORAGE

**Handling** Avoid formation of dust and aerosols.  
Ensure adequate ventilation.  
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. Temperature 0-25 °C (32-77 °F)

**Storage Conditions** In unbroken packaging - dry and protect from the sun. The product has been formulated for optimal stability. Extended storage or adverse conditions such as higher temperatures or higher humidity may lead to a higher dosage requirement.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical name	ACGIH TLV
Protease (Subtilisin) (aep.)	Ceiling: 0.00006 mg/m <sup>3</sup> Ceiling (as crystalline active enzyme, listed under Subtilisins)

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

Chemical name	DMEL Inhalation Long term Local (Professionals/Consumers)	DNEL Dermal Acute Local (Professional/Consumers)
Protease (Subtilisin) (aep.)	DMEL = 15 ng/m <sup>3</sup>	-

### Derived No Effect Level (DNEL)

### Derived Minimal Effect Level (DMEL)

When enzymes are used for spray products or hard surface cleaning, exposure of enzymes may exceed the safety level (15 ng/m<sup>3</sup> DMEL). If you intend to develop such products, please contact Novozymes for further safety evaluation.

### 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

Rethink Tomorrow

novozymes 

## SAFETY DATA SHEET

Medley® Brilliant 300 L  
Revision date: 2026/04/23

Page

5 / 9

<b>Eye Protection</b>	Wear safety glasses with side shields (or goggles)
<b>Skin and body protection</b>	Wear protective gloves and protective clothing
<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

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical State	Liquid
Color	Amber
Odor	Slight fermentation odor
pH	Adjusted to the range where active enzyme is stable – typically pH 4 – 9
Melting point / freezing point	No data available
Boiling Point/Range	No data available > 100 °C
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)	1.17
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
<b>Other information</b>	No information available

---

## 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	Not relevant
<b>Chemical stability</b>	Stable under recommended storage conditions
<b>Possibility of hazardous reactions</b>	None under normal processing
<b>Conditions to Avoid</b>	None
<b>Incompatible materials</b>	None
<b>Hazardous Decomposition Products</b>	None

---

### Information on toxicological effects (product level)

<b>Actual Product Data</b>	An eye irritation study, Isolated Chicken Eye (ICE) on similar mixture concluded the classification as Eye Cat. 2
<b>Product Information</b>	
<b>Inhalation</b>	Specific test data for the substance or mixture is not available.

Rethink Tomorrow

novozymes 

# SAFETY DATA SHEET

Medley® Brilliant 300 L  
Revision date: 2026/04/23

Page

6 / 9

**Eye contact** Specific test data for the substance or mixture is not available.  
**Skin contact** Specific test data for the substance or mixture is not available.  
**Ingestion** Specific test data for the substance or mixture is not available.

## Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available.

## Numerical measures of toxicity

No information available

### Acute toxicity

**LD50 Oral:** No information available  
**LD50 Dermal:** No information available  
**LC50 Inhalation:** No information available  
**LC50 Inhalation** No information available

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation** No information available.

**Serious eye damage/eye irritation** No information available.

**Respiratory or skin sensitization** No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available  
**Reproductive toxicity** No information available

**Developmental Effects** No information available  
**Teratogenic Effects** No information available

**STOT - single exposure** No information available

**STOT - repeated exposure** No information available

**Aspiration hazard** No information available.

## Information on toxicological effects (component level)

<b>Chemical name</b>	Protease (Subtilisin) (aep.)
<b>Acute oral toxicity</b>	LD50: 504 mg aep/kg bw (OECD401/423)
<b>Acute inhalation toxicity</b>	Exposure based waiving
<b>Skin corrosion/irritation</b>	Slightly irritating (OECD TG 404)
<b>Serious eye damage/eye irritation</b>	Slightly irritating (OECD TG 405)
<b>Respiratory sensitization</b>	Sensitizer (Human experience)
<b>Skin sensitization</b>	No data available
<b>Genetic toxicity</b>	No indication of mutagenic effects (OECD TG 471, 473, 476)
<b>Carcinogenicity</b>	No data available
<b>Reproductive toxicity</b>	No data available
<b>Specific target organ toxicity (single exposure)</b>	Irritating, respiratory tract (ACGIH 2001)
<b>Specific target organ systemic toxicity (repeated exposure)</b>	No data available
<b>Aspiration hazard</b>	No data available
<b>Chemical name</b>	Cellulase (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)

Rethink Tomorrow

novozymes 

# SAFETY DATA SHEET

Medley® Brilliant 300 L  
Revision date: 2026/04/23

Page

7 / 9

<b>Serious eye damage/eye irritation</b>	Not irritating (OECD TG 405)
<b>Respiratory sensitization</b>	Sensitizer (Human experience)
<b>Skin sensitization</b>	No data available
<b>Genetic toxicity</b>	No indication of mutagenic effects (OECD TG 471, 476)
<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 systemic toxicity (repeated exposure)</b>	No data available
<b>Aspiration hazard</b>	No data available
<b>Chemical name</b>	Alpha-amylase (aep.)
<b>Acute oral toxicity</b>	Data conclusive but not sufficient for classification. No signs of toxicity were observed at the highest possible dose among the rats treated with a single oral dose of 2562 mg enzyme concentrate dry matter/kg body weight (equivalent to 858.9 mg active enzyme protein/ kg body weight).
<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 sensitization</b>	Sensitizer (Human experience)
<b>Skin sensitization</b>	Data conclusive but not sufficient for classification
<b>Genetic toxicity</b>	No indication of mutagenic effects (OECD TG 471, 476)
<b>Carcinogenicity</b>	Data conclusive but not sufficient for classification
<b>Reproductive toxicity</b>	No data available
<b>Specific target organ toxicity (single exposure)</b>	Data conclusive but not sufficient for classification
<b>Specific target organ systemic toxicity (repeated exposure)</b>	Data conclusive but not sufficient for classification
<b>Aspiration hazard</b>	Not applicable
<b>Chemical name</b>	Lipase (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 sensitization</b>	Sensitizer (Human experience)
<b>Skin sensitization</b>	No data available
<b>Genetic toxicity</b>	No indication of mutagenic effects (OECD TG 471, 476)
<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 systemic toxicity (repeated exposure)</b>	No data available
<b>Aspiration hazard</b>	No data available
Other information	No information available

## 12. ECOLOGICAL INFORMATION

### Toxicity

Chemical name	Daphnia, acute	Algae, acute	Fish, acute
Protease (Subtilisin) (aep.)	EC50 (48 hours): 586 µg aep/l (OECD TG 202)	ErC50 (72 hours): 830 µg aep/l (OECD TG 201)	LC50 (96 hours): 8.2 mg aep/l (OECD TG 203)
Cellulase (aep.)	48-hour EC50 value: >110.1 mg enzyme concentrate dry matter/L (equivalent to 52.1 mg active enzyme protein/L)	72-hour EbC50, ErC50 and EyC50 values could not be calculated and must be >110.1 mg enzyme concentrate dry matter/L (equivalent to 52.1 mg active enzyme protein)/L and the "no observed effect concentration" was ≥ 110.1 mg enzyme concentrate dry matter/L (equivalent to 52.1 mg active enzyme protein)/L.	96-hour LC50 value for Cellulase could not be calculated and must be >110.1 mg enzyme concentrate dry matter/L (equivalent to 52.1 mg active enzyme protein/L).
Alpha-amylase (aep.)	EC50 (48 hours): 31.7 - 457 mg	ErC50 (72 hours): ≥ 5.2 mg aep/l	LC50 (96 hours): 58.3 - 326.7 mg

Rethink Tomorrow

novozymes 

# SAFETY DATA SHEET

Medley® Brilliant 300 L  
Revision date: 2026/04/23

Page

8 / 9

	aep/l (OECD TG 202)	(OECD TG 201)	aep/l (OECD TG 203)
Lipase (aep)	EC50 (48 h): not toxic at concentrations up to 37.4 mg active enzyme protein/L. EC50 could not be determined. (OECD TG 202)	ErC50 (72 hours): > 18 mg aep/l (OECD TG 201)	LC50 (96 hours): >68.3 mg aep/l (OECD TG 203)

## Persistence/Degradability

Chemical name	Persistence and degradability	Partition coefficient (n-octanol/water)
Protease (Subtilisin) (aep.)	Readily biodegradable (OECD TG 301B)	LogPow: <0
Cellulase (aep.)	Readily biodegradable (OECD 301E/F)	LogPow: <0
Alpha-amylase (aep.)	Readily biodegradable (OECD 301F)	LogPow: <0
Lipase (aep)	Readily biodegradable (OECD 301)	LogPow: <0

Chemical name	Bioaccumulative Potential
Protease (Subtilisin) (aep.)	Does not bioaccumulate
Cellulase (aep.)	Does not bioaccumulate
Alpha-amylase (aep.)	Does not bioaccumulate
Lipase (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

### USA, Federal Regulations

#### TSCA Inventory

The active ingredient and all components of the enzyme preparation are listed on the TSCA inventory  
Disubstituted alaninamide is listed on TSCA inventory with CAS RN 1189108-44-8. CAS RN 2940997-67-9 covers the non-specific form of the

Rethink Tomorrow

novozymes 

# SAFETY DATA SHEET

Medley® Brilliant 300 L  
Revision date: 2026/04/23

Page

9 / 9

isomeric substance.

## 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.

## 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

### Canada - CEPA 1999

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.

---

## 16. OTHER INFORMATION

### 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)

### GHS-Classification

The classification of eye effects is based on testing of a similar mixture. 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

Version No: 3 / ANSI / 2026/04/23

Rethink Tomorrow

novozymes 