

ENDOZYM Velluto

Issued on 04/25/2023 - Rel. # 1 on 04/25/2023

#1/14

In conformity to Regulation (EU) 2020/878

SECTION 1. Identification of the substance/mixture and of the company/enterprise

1.1. Product identifier

Product name : ENDOZYM Velluto Product code: refer to sales department

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

Enzyme preparations Sectors of use: Manufacture of food products[SU4] Product category: Technological adjuvant

Not recommended uses Do not use for purposes other than those listed

1.3. Details of the supplier of the safety data sheet

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1.4. Emergency telephone number

AEB SpA Centralino/Switchboard: +39.030.2307.1 - (h 8.30-12.00 13.30-18.00 GMT +1; Lingua/Language: Italiano, English)



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AEB OCEANIA PTY LTD Switchboard: +61 1300 704 971 (GMT +9; Language: English)

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008:

Pictograms: GHS08

Hazard Class and Category Code(s): Resp. Sens. 1

Hazard statement Code(s): H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

The product, if inhaled, can cause sensitization.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008:

Pictogram, Signal Word Code(s): GHS08 - Danger

Hazard statement Code(s): H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

Supplemental Hazard statement Code(s): not applicable

Precautionary statements: Prevention P261 - Avoid breathing vapours/spray. P284 - In case of inadequate ventilation wear respiratory protection. Response 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 a doctor.

Contains:

Arabinanase, Pectin lyase, Pectin methylesterase.

Ingredients: Glycerol, sucrose, L-arabinanase, pectin lyase, pectin methylesterase, sodium chloride, potassium sorbate, water q.s. to 100.

For food, oenological use. Not intended for the final consumer. In accordance with current regulations on the specific matters. Only for industrial use.



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Based on the available data, no PBT or vPvB substances are present in accordance with Regulation (EC) 1907/2006, annex XIII

SECTION 3. Composition/information on ingredients

3.1 Substances

Irrilevant

3.2 Mixtures

Refer to paragraph 16 for full text of hazard statements

Substance	Concentration[w/w]	Classification	Index	CAS	EINECS	REACh
Glycerol substance for which there are Community workplace exposure limits	>= 25 < 50%			56-81-5	200-289-5	
Arabinanase	>= 5 < 10%	Resp. Sens. 1, H334	3.2.1.99	37325-54-5	253-463-8	
Pectin lyase	>= 1 < 5%	Resp. Sens. 1, H334	4.2.2.10	9033-35-6	232-894-5	
Pectin methylesterase	>= 1 < 5%	Resp. Sens. 1, H334	3.1.1.11	9025-98-3	232-807-0	

SECTION 4. First aid measures

4.1. Description of first aid measures

Inhalation:

Ventilate the area. Move immediately the contaminated patient from the area and keep him at rest in a well ventilated area. If you feel unwell seek medical advice.

Direct contact with skin (of the pure product).: Wash thoroughly with soap and running water.

Direct contact with eyes (of the pure product).:

Wash immediately and thorougly with running water for at least 10 minutes.

Ingestion:

Not dangerous. In case of malaise consult a doctor.

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

No data available.

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

If experiencing respiratory symptoms: Call a POISON CENTER or a doctor.

SECTION 5. Firefighting measures

5.1. Extinguishing media

Suggested extinguishing media: Water spray, CO2, foam, dry chemical, depending on the materials involved in the fire.

Extinguishing media to avoid:

Water jets. Use water jets only to cool the surfaces of the containers exposed to fire.

5.2. Special hazards arising from the substance or mixture

No data available.

5.3. Advice for firefighters

Use protection for the breathing apparatus Safety helmet and full protective clothing. The water spray can be used to protect the people involved in the extinction. You may also use self-contained breathing apparatus, especially when working in confined and poorly ventilated areas. Keep containers cool with water spray

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel: Leave the area surrounding the spill or release. Do not smoke Wear gloves and protective clothing

6.1.2 For emergency responders:Eliminate all unguarded flames and possible sources of ignition. No smoking.Privide a sufficient ventilation.Evacuate the danger area and, in case, consult an expert.

6.2. Environmental precautions

Contain spills with earth or sand.

If the product has entered a watercourse, sewers or has contaminated soil or vegetation, notify the authorities. Dispose of the waste material in compliance with the regulations

6.3. Methods and material for containment and cleaning up

6.3.1 Containment:

Rapidly recover the product, wear a mask and protective clothing (for specifications refer to section 8.2. SDS) Recover the product for reuse, if possible, or for removal. Possibly absorb it with inert materia or sucked it.



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Prevent it from entering the sewer system.

6.3.2 Cleaning up: After wiping up, wash with water the area and materials involved

6.3.3 Other information: None in particular.

6.4. Reference to other sections

Refer to paragraphs 8 and 13 for more information

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Preferably use in a closed circuit. Use with adequate ventilation. Use suitable protective equipment. Avoid contact with eyes, skin, respiratory tract and clothing. Handle the product after consulting all other sections of this safety data sheet. Do not eat or drink while handling the product. See also the following paragraph 8.

7.2. Conditions for safe storage, including any incompatibilities

Store in the original sealed package, protected from light, in a cool, dry, odorless place and at a temperature < 20°C. Do not freeze. Lot number (BN) and expiry date (EXP): see barcodes.

7.3. Specific end use(s)

Manufacture of food products:

Handle with Care. Store in the original sealed package, protected from light, in a cool, dry, odorless place and at a temperature < 20°C. Do not freeze. Lot number (BN) and expiry date (EXP): see barcodes.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

_____ Related to contained substances: Glycerol: Limit value - Eight hours Australia 10 (1) mg/m3 Belgium 10 mg/m3 Canada - Ontario 10 mg/m3 Canada - Quebec 10 mg/m3 Finland 20 mg/m3 France 10 mg/m3 Germany (AGS) 200 (1) mg/m3 Germany (DFG) 200 (1) mg/m3 Ireland 10 mg/m3 New Zealand 10 (1) mg/m3 Poland 10 mg/m3 Singapore 10 mg/m3 South Africa Mining 10 ppm South Korea 10 mg/m3 Spain 10 mg/m3 Switzerland 50 inhalable aerosols mg/m3 #5/14



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USA - OSHA 15 (1) mg/m3 5 (2) mg/m3 United Kingdom 10 mg/m3

Limit value - Short-term Germany (AGS) 400 (1)(2) mg/m3 Germany (DFG) 400 (1)(2) mg/m3 Switzerland 100 inhalable aerosols mg/m3

Remarks

Australia (1) This value refers to inhalable dust containing no asbestos and < 1% crystalline silica. Germany (AGS) (1) Inhalable fraction (2) Average value 15 minutes Germany (DFG) (1) Inhalable fraction (2) Average value 15 minutes New Zealand (1) The value for inhalable dusts containing no asbestos and less than 1% free silica. USA - OSHA (1) Inhalable fraction (2) Breathable fraction

- Substance: Glycerol DNEL Systemic effects Long term Workers inhalation = 56 (mg/m3) PNEC Sweet water = 0,885 (mg/l) sediment Sweet water = 3,3 (mg/kg/sediment) Sea water = 0,088 (mg/l) sediment Sea water = 0,33 (mg/kg/sediment) intermittent emissions = 8,85 (mg/l) ground = 0,141 (mg/kg ground)

- Substance: Pectin lyase PNEC Sweet water = 0,052 (mg/l) Sea water = 0,00052 (mg/l) STP = 65 (mg/l) ground = 0,001 (mg/kg ground)

8.2. Exposure controls

Appropriate engineering controls: Manufacture of food products: No specific monitoring foreseen (act according to good practice and specific rules for the type of risk associated)

8.2.2 Individual protection measures:

(a) Eye / face protection

Not needed for normal use, unless otherwise provided by the employer and / or by assessments of environmental hygiene investigations

(b) Skin protection

(i) Hand protection

Not needed for normal use, unless otherwise provided by the employer and / or by assessments of environmental hygiene investigations

(ii) Other





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Wear normal work clothing.

(c) Respiratory protection Use adequate protective respiratory equipment (EN 14387:2008)

(d) Thermal hazards No hazard to report

Environmental exposure controls: Use according to good working practices and avoid to disperse the product into the environment.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical and chemical properties	Value	Determination method
Physical state	Liquid	
Colour	Brown	
Odour	not determined as considered not relevant for the characterization of the product	
Odour threshold	not determined as considered not relevant for the characterization of the product	
Melting point/freezing point	not determined as considered not relevant for the characterization of the product	
Boiling point or initial boiling point and boiling range	not determined as considered not relevant for the characterization of the product	
Flammability	not determined as considered not relevant for the characterization of the product	
Lower and upper explosion limit	not determined as considered not relevant for the characterization of the product	
Flash point	not determined as considered not relevant for the characterization of the product	
Auto-ignition temperature	not determined as considered not relevant for the characterization of the product	
Decomposition temperature	not determined as considered not relevant for the characterization of the product	
рН	4,5 - 5,5 (20°C)	
Kinematic viscosity	not determined as considered not relevant for the characterization of the product	
Solubility	in water	
Water solubility	not determined as considered not relevant for the characterization of the product	
Partition coefficient n-octanol/water (log value)	not determined as considered not relevant for the characterization of the product	
Vapour pressure	not determined as considered not relevant for the characterization of the product	
Density and/or relative density	0,950 - 1,300	
Relative vapour density	not determined as considered not relevant for the characterization of the product	
Particle characteristics	not determined as considered not relevant for the characterization of the product	



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9.2. Other information

9.2.1 Information with regard to physical hazard classes

No data available

9.2.2 Other safety characteristics

No data available.

SECTION 10. Stability and reactivity

10.1. Reactivity

not relevant

10.2. Chemical stability

No hazardous reaction when handled and stored according to provisions.

10.3. Possibility of hazardous reactions

None under recommended storage conditions

10.4. Conditions to avoid

Arabinanase: Not available

Pectin methylesterase: Not available

10.5. Incompatible materials

None



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10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11. Toxicological information

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

(a) acute toxicity: Glycerol: Ingestion - LD50 rat (mg / kg / 24h bw): not available Skin contact - LC50 rat / rabbit (mg / kg / 24h bw): not available Inhalation - LD50 rat (mg / I / 4h): not available Arabinanase: Ingestion - LD50 rat (mg / kg / 24h bw): not available Skin contact - LC50 rat / rabbit (mg / kg / 24h bw): not available Inhalation - LD50 rat (mg / I / 4h): not available Pectin lyase: Ingestion - LD50 rat (mg / kg / 24h bw): not available Skin contact - LC50 rat / rabbit (mg / kg / 24h bw): not available Inhalation - LD50 rat (mg / I / 4h): not available Pectin methylesterase: Ingestion - LD50 rat (mg / kg / 24h bw): not available Skin contact - LC50 rat / rabbit (mg / kg / 24h bw): not available Inhalation - LD50 rat (mg / I / 4h): not available (b) skincorrosion/irritation: Glycerol: Not classified Arabinanase: Not corrosive Pectin lyase: Not corrosive Pectin methylesterase: Not corrosive Glycerol: Not classified Arabinanase: Not irritating Pectin lyase: Not irritating Pectin methylesterase: Not irritating (c) serious eye damage/irritation: Glycerol: Not classified Arabinanase: Not corrosive Pectin lyase: Not corrosive Pectin methylesterase: Not corrosive Glycerol: Not classified Arabinanase: Not irritating Pectin Ivase: Not irritating Pectin methylesterase: Not irritating (d) respiratoryorskinsensitisation: The product, if inhaled, can cause sensitization. Glycerol: Not classified Arabinanase: May cause sensitization by inhalation. Pectin lyase: Sensitizer: May cause sensitization by inhalation. Pectin methylesterase: May cause sensitization by inhalation. (e) germ cell mutagenicity: Glycerol: Not classified Arabinanase: Not available Pectin lyase: Unavailable Pectin methylesterase: Unavailable (f) carcinogenicity: Glycerol: Not classified Arabinanase: Not available Pectin Ivase: Unavailable Pectin methylesterase: Unavailable (g) eproductivetoxicity: Glycerol: Not classified - Does not affect fertility. Non-toxic for development. Arabinanase: Not available Pectin lyase: Unavailable



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Pectin methylesterase: Unavailable

(h) specific target organ toxicity (STOT) single exposure: Glycerol: Not classified Ingestion may cause nausea, vomiting and avoidance.

Arabinanase: Not available

Pectin lyase: Unavailable

Pectin methylesterase: Unavailable

(i) specific target organ toxicity (STOT) repeated exposureGlycerol: Not classified

Arabinanase: Once sensitized, a severe allergic reaction may occur upon subsequent exposure to very low levels. Pectin lyase: Once sensitized, a severe allergic reaction can occur upon subsequent exposure to very low levels. Pectin methylesterase: Once sensitized, a severe allergic reaction can occur upon subsequent exposure to very low levels.

(j) aspiration hazard: Glycerol: Inhalation: May cause irritation to the respiratory tract and other mucous membranes. Arabinanase: Not available

Pectin lyase: Unavailable

Pectin methylesterase: Unavailable

11.2. Information on other hazards

No data available.

SECTION 12. Ecological information

12.1. Toxicity

Related to contained substances: Glycerol: Acute aquatic toxicity: Not classified Chronic aquatic toxicity: Not classified LC50-96 h - fish 54000 mg / I Oncorhynchus mykiss EC50-48 h - Daphnia 1955 mg / I EC50-72 h - algae 3200 mg / I Entosiphon sulcatum

Arabinanase:

Acute toxicity - fish LC50 (mg / I / 96h): not available Acute toxicity - crustaceans EC50 (mg / I / 48h): not available Acute toxicity algae ErC50 (mg / I / 72-96h): not available Chronic toxicity - fish NOEC (mg / I): not available Chronic toxicity - shellfish NOEC (mg / I): not available Chronic toxicity algae NOEC (mg / I): not available

Pectin lyase:

Acute toxicity - fish LC50 (mg / I / 96h): not available Acute toxicity - crustaceans EC50 (mg / I / 48h): not available Acute toxicity algae ErC50 (mg / I / 72-96h): not available Chronic toxicity - fish NOEC (mg / I): not available Chronic toxicity - shellfish NOEC (mg / I): not available Chronic toxicity algae NOEC (mg / I): not available

Pectin methylesterase:

Acute toxicity - fish LC50 (mg/l/96h): not available Acute toxicity - crustaceans EC50 (mg/l/48h): not available Acute algae toxicity ErC50 (mg/l/72-96h): not available Chronic toxicity - fish NOEC (mg/l): not available Chronic toxicity - crustaceans NOEC (mg/l): not available Chronic algae toxicity NOEC (mg/l): not available



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Use according to good working practices and avoid to disperse the product into the environment.

12.2. Persistence and degradability

Related to contained substances: Glycerol: Persistence and degradability Readily biodegradable. COD value 1.16 g O2 / g substance ThOD (gO2 / g) 1.217 g O2 / g substance BOD (% of ThOD) 71% DTO

Arabinanase: Not available

Pectin lyase: Readiily biodegradable

Pectin methylesterase: not available

12.3. Bioaccumulative potential

Related to contained substances: Glycerol: Log P octanol / water at 20 ° C -1.76 - 2.6 Kow log -1.76 Bioaccumulative potential Not expected to bioaccumulate.

Arabinanase: Not available

Pectin lyase: not available

Pectin methylesterase: not available

12.4. Mobility in soil

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Related to contained substances: Glycerol: ground Product that penetrates easily into the ground.

Arabinanase: Not available

Pectin lyase: not available

Pectin methylesterase: not available



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12.5. Results of PBT and vPvB assessment

Based on the available data, no PBT or vPvB substances are present in accordance with Regulation (EC) 1907/2006, annex XIII

12.6. Endocrine disrupting properties

No data available.

12.7. Other adverse effects

No adverse effects

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Do not reuse empty containers. Dispose of them in accordance with the regulations in force. Any remaining product should be disposed of according to applicable regulations by addressing to authorized companies. Recover if possible. Operate according to local or national regulations

SECTION 14. Transport information

14.1. UN number or ID number

Not included in the field of application of regulations concerning the transport of dangerous goods: by road (ADR); by rail (RID); by air (ICAO / IATA); by sea (IMDG).

14.2. UN proper shipping name

None

14.3. Transport hazard class(es)

None

14.4. Packing group

None

14.5. Environmental hazards

None



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14.6. Special precautions for user

No data available.

14.7. Maritime transport in bulk according to IMO instruments

Transport in bulk is not foreseen

SECTION 15. Regulatory information

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

Restrictions relating to the product or contained substances (All. XVII Reg. EC 1907/2006): not applicable Substances in Candidate List (art. 59 Reg. EC 1907/2006): the product does not contain SVHC in a proportion $\ge 0.1\%$. Substances subject to authorisation (Ann. XIV Reg. CEC 1907/2006): the product does not contain SVHC in a proportion $\ge 0.1\%$. Reg. (EU) n. 1169/2011: see 2.2

Regulation (EU) 1332/2008; see p.2.2

REGULATION (EU) No 1357/2014 - waste: HP13 - Sensitising

15.2. Chemical safety assessment

No chemical safety assessment was carried out by the supplier

SECTION 16. Other information

16.1. Other information

Description of hazard statements set out in paragraph 3

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

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled Classification procedure: Calculation method

Main normative references: Reg. (CE) n. 1907 del 18/12/06 REACH (Registration, Evaluation and Authorisation of CHemicals) et seq. Reg. (CE) 1272/2008 CLP (Classification Labelling and Packaging) et seq. Regulation (UE) n. 1169/2011 (on the provision of food information to consumers) Directive 2012/18/EU (on the control of major-accident hazards involving dangerous substances) et seq. Regulation (EU) 1332/2008 (Food enzymes)

Training required: This document must be submitted to the employer to determine the possible need for appropriate training for workers to ensure protection of human health and the environment.

n.a.: not applicable



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n.d.: not available

ADR: Accord europèen relative au transport International des merchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road) ATE: Acute Toxicity Estimat **BFC: BioconCentration Factor** BOD: Biochemical Oxigen Demand CAS: Chemical Abstract Service number CAP: Centre AntiPoison CE/EC number EINECS (European Inventory of existing Commercial Substances) e ELINCS (European List of notified Chemical Substances) CL50/LC50: Lethal Concentration 50 DL50/LD50: Lethal Dose 50 COD: Chemical Oxygen Demand DNEL: Derived No Effect Level EC50: half maximal Effective Concentration ERC: Enviroment Release Classes EU/UE: European Union IATA: International Air Transport Association ICAO: International Civil Aviation Organization IMDG: International Maritime Dangerous Goods code Kow: Octanol water partition coefficient NOEC: No Observed Effect Concentration **OEL: Occupational Exposure Limit** PBT: Persistent Bioaccumulative and Toxic PC: Product Categories PNEC: Predicted No Effect Concentration **PROC:** Process Categories RID: Règlement concernent le transport International ferroviaire des merchandises dangereuses (Regulations concerning International rail transport of dangerous goods) STOT: Target Organ Systemic Toxicity STOT (RE): Repeated Exposure STOT (SE): Single Exposure STP: Sewage Treatment Plants SU: Sector of Use SVCH: Substance of Very High Concern TLV: Threshold Limit Value vPvB: Very Persistent Very Bioaccumulative

References and Sources:

- ECHA Registered Substances:
- https://echa.europa.eu/web/guest/information-on-chemicals/registered-substances
- SDS supplier
- GESTIS DNEL Database: http://www.dguv.de/ifa/gestis/gestis-dnel-datenbank/index-2.jsp
- GESTIS International Limit Value: http://limitvalue.ifa.dguv.de

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*** this tab annuls and replaces any previous edition. (IIXX)

Changes to the previous edition: first issue.