

ENDOZYM TMO

Issued on 10/08/2024 - Rel. # 5 on 10/08/2024

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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 TMO 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)

AEB USA

Switchboard: +1 2096258139 (GMT -8; Language: English)

AEB AFRICA (PTY) LTD Switchboard: +27 215512700 (GMT +1; Language: English, Afrikaans)

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.

2.1.2 Additional information:

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

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:





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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.

Disposal

P501 - Dispose of contents/container to local/regional/national/international regulations

Contains:

polygalacturonase, pectin lyases, betaglucanase (ß1-3, ß1-6).

Ingredients: potassium chloride, maltodextrin, polygalacturonase, ammonium sulphate, pectin lyases, potassium sorbate, betaglucanase (ß1-3, ß1-6), water qs to 100.

Food use, oenological use. Not intended for the final consumer. In accordance with current regulations on the specific matter. Only for industrial use.

2.3. Other hazards

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

Based on available data, there are no substances that interfere with the Endocrine System in accordance with Regulation (EU) 2017/2100

The use of this chemical agent implies the obligation of the "risk assessment" by the employer according to the provisions of Legislative Decree April 9, 2008 no. 81 and subsequent amendments. If the results of the risk assessment demonstrate that, in relation to the type, quantity, methods and frequency of exposure, there is only a low risk for the safety and irrelevant for the health of the workers and that the measures referred to in paragraph 1 of Legislative Decree April 9, 2008 no. 81 are sufficient to reduce the risk, the provisions of articles 225, 226, 229, 230 of the same Legislative Decree do not apply

SECTION 3. Composition/information on ingredients

3.1 Substances

Irrilevant

3.2 Mixtures

Substance	Concentration[w/w]	Classification	IUB N°	CAS	EINECS	REACh
potassium chloride substance for which there are Community workplace exposure limits	>= 10 < 25%			7447-40-7	231-211-8	
polygalacturonase	>= 3 < 5%	Skin Irrit. 2, H315;	3.2.1.15	9032-75-1	232-885-6	



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Substance	Concentration[w/w]	Classification	Index	CAS	EINECS	REACh
		Eye Irrit. 2, H319; Resp. Sens. 1, H334; STOT SE 3, H335				
pectin lyases	>= 1 < 2,5%	Resp. Sens. 1, H334	4.2.2.10	9033-35-6	232-894-5	

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:

Drink water in sips. Consult a doctor in case of symptoms.

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

No data available.

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.



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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. 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

Avoid contact and inhalation of vapors Handle the product after consulting all other sections of this safety data sheet.



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See also paragraph 8 below.

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7.2. Conditions for safe storage, including any incompatibilities

Keep in original container closed tightly. Do not store in open or unlabelled containers. Keep containers upright and safe by avoiding the possibility of falls or collisions. Store in its original sealed packaging away from light in a cool dry place free of odors, at a temperature < 20°C. Do not freeze. Batch number (BN) and Best before date (EXP): See Barcode.

7.3. Specific end use(s)

Manufacture of food products:

Store in its original sealed packaging away from light in a cool dry place free of odors, at a temperature < 20°C. Do not freeze. Batch number (BN) and Best before date (EXP): See Barcode.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

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Related to contained substances:
potassium chloride:
Limit value - Eight hours
Latvia: 5 mg/m<sup>3</sup>
- Substance: potassium chloride
DNEL
Systemic effects Long term Workers inhalation = 1064 (mg/m3)
Systemic effects Long term Workers dermal = 303 (mg/kg bw/day)
Systemic effects Long term Consumers inhalation = 273 (mg/m3)
Systemic effects Long term Consumers dermal = 182 (mg/kg bw/day)
Systemic effects Long term Consumers oral = 91 (mg/kg bw/day)
Systemic effects Short term Workers inhalation = 5320 (mg/m3)
Systemic effects Short term Workers dermal = 910 (mg/kg bw/day)
Systemic effects Short term Consumers inhalation = 1365 (mg/m3)
Systemic effects Short term Consumers dermal = 910 (mg/kg bw/day)
Systemic effects Short term Consumers oral = 455 (mg/kg bw/day)
PNEC
Sweet water = 0,1 (mg/l)
Sea water = 0.1 (mg/l)
STP = 10 (mg/l)
- Substance: polygalacturonase
PNEC
Sweet water = 0,0237 (mg/l)
Sea water = 0.0237 (mg/l)
STP = 65 (mg/l)
ground = 0,00376 (mg/kg ground)
- Substance: pectin lyases
PNEC
Sweet water = 0,052 (mg/l)
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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 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	Viscous liquid	
Colour	brune to 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	



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Physical and chemical properties	Value	Determination method	
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 - 6.5		
Kinematic viscosity	not determined as considered not relevant for the characterization of the product		
Solubility	in water		
Water solubility	miscible in all proportions		
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		

9.2. Other information

9.2.1 Information with regard to physical hazard classes

Irrilevant

9.2.2 Other safety characteristics

Irrilevant

SECTION 10. Stability and reactivity

10.1. Reactivity

Related to contained substances:

potassium chloride:

The product is not reactive under normal conditions of use, storage and transport.



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polygalacturonase: Non pertinent.

pectin lyases: The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

No hazardous reaction when handled and stored according to provisions.

10.3. Possibility of hazardous reactions

There are no hazardous reactions

10.4. Conditions to avoid

polygalacturonase: None.

pectin lyases: None under recommended storage and handling conditions.

10.5. Incompatible materials

none in particular.

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: potassium chloride: Ingestion - DL50 rat (mg / kg / 24h pc): 3020 Contact avec la peau - CL50 rat / lapin (mg / kg / 24h pc): n.d. Inhalation - DL50 rat (mg / I / 4h): n.d.



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polygalacturonase: Ingestion - LD50 rat (mg / kg / 24h bw): nd Skin contact - LC50 rat / rabbit (mg / kg / 24h bw): nd Inhalation - LD50 rat (mg / I / 4h): nd pectin lyases: 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: potassium chloride: Unclassified polygalacturonase: Unavailable pectin lyases: Not corrosive potassium chloride: Unclassified polygalacturonase: Irritating pectin lyases: Not irritating (c) serious eye damage/irritation: potassium chloride: Unclassified polygalacturonase: Unavailable pectin lyases: Not corrosive potassium chloride: Unclassified polygalacturonase: Irritating pectin lyases: Not irritating (d) respiratoryorskinsensitisation: The product, if inhaled, can cause sensitization. potassium chloride: Unclassified polygalacturonase: May cause sensitization by inhalation pectin lyases: Sensitizer: May cause sensitization by inhalation. (e) germ cell mutagenicity: potassium chloride: Unclassified polygalacturonase: Unavailable pectin lyases: Unavailable (f) carcinogenicity: potassium chloride: Unclassified polygalacturonase: Unavailable pectin lyases: Unavailable (g) eproductivetoxicity: potassium chloride: Unclassified polygalacturonase: Unavailable pectin lyases: Unavailable (h) specific target organ toxicity (STOT) single exposure: potassium chloride: Unclassified polygalacturonase: Unavailable pectin lyases: Unavailable (i) specific target organ toxicity (STOT) repeated exposurepotassium chloride: Unclassified polygalacturonase: Unavailable pectin lyases: Once sensitized, a severe allergic reaction can occur upon subsequent exposure to very low levels. (j) aspiration hazard: potassium chloride: Unclassified polygalacturonase: Unavailable pectin lyases: Unavailable

11.2. Information on other hazards

No data available.

11.2.1. Endocrine disrupting properties

Based on available data, there are no substances that interfere with the Endocrine System in accordance with Regulation (EU) 2017/2100

SECTION 12. Ecological information

12.1. Toxicity

Related to contained substances:



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potassium chloride:

Acute toxicity - fish LC50 (mg / I / 96h): 880 (Pimephales promelas; (OECD method 203)) Acute toxicity - crustaceans EC50 (mg / I / 48h): 440 (Daphniamagna; (OECD method 202)) Acute toxicity algae EC50 (mg / I / 72h):> 100 (Desmodesmus subspicatus; (method OECD 201)) Chronic toxicity - fish NOEC (mg / I): nd Chronic toxicity - crustaceans NOEC (mg / I): nd Chronic toxicity algae NOEC (mg / I / 72h):> 100 (Desmodesmus subspicatus; (method OECD 201)) Acute toxicity algae NOEC (mg / I / 72h):> 100 (Desmodesmus subspicatus; (method OECD 201)) Acute toxicity M-factor = 1 Chronic toxicity M-factor = 1

polygalacturonase: Acute toxicity - fish LC50 (mg / I / 96h): n.a. Acute toxicity - crustaceans EC50 (mg / I / 48h): n.a. Acute toxicity algae ErC50 (mg / I / 72-96h): n.a Chronic toxicity - fish NOEC (mg / I): n.a Chronic toxicity - crustaceans NOEC (mg / I): n.a Chronic toxicity algae NOEC (mg / I): n.a Acute toxicity M-factor = 1 Chronic toxicity M-factor = 1

pectin lyases: Acute toxicity - fish LC50 (mg / I / 96h): not available Acute toxicity - crustaceans EC50 (mg/l/48h) [1]: 2000 mg/l Acute toxicity - crustaceans EC50 (mg/l/48h) [2]: 212 mg/l 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 Acute toxicity M-factor = 1 Chronic toxicity M-factor = 1

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

12.2. Persistence and degradability

Related to contained substances: potassium chloride: It does not apply to inorganic substances.

polygalacturonase: Unavailable

pectin lyases: Readiily biodegradable

12.3. Bioaccumulative potential

Related to contained substances: potassium chloride: It does not apply to inorganic substances.



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polygalacturonase: Unavailable

pectin lyases: not available

12.4. Mobility in soil

Related to contained substances: potassium chloride: It must have been very mobile in the ground.

polygalacturonase: Unavailable

pectin lyases: not available

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

Based on available data, there are no substances that interfere with the Endocrine System in accordance with Regulation (EU) 2017/2100

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. Send to authorized discharge plants or for incineration under controlled conditions. Operate according to local and National rules in force

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



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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

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 the substances contained (Annex XVII EC Reg. 1907/2006): not applicable Substances in Candidate list (art. 59 EC Reg. 1907/2006): the product does not contain SVHC in percentage = a 0.1 %.

Regulation (EU) 1169/2011: see point 2.2 Regulation (EU) 1308/2013; see point 2.2 Regulation (EC) 1333/2008; see point 2.2 Regulation (EC) 1332/2008; see point 2.2

15.2. Chemical safety assessment

No chemical safety assessment was carried out by the supplier

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SECTION 16. Other information

16.1. Other information

Description of hazard statements set out in paragraph 3

- H315 = Causes skin irritation.
- H319 = Causes serious eye irritation.

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

H335 = May cause respiratory irritation.

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. Directive 2012/18/EU (on the control of major-accident hazards involving dangerous substances) et seq.

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

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



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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 raw material supplier

- GESTIS International Limit Value: http://limitvalue.ifa.dguv.de

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Changes to the previous edition: general update.