

# CZ0997 - β-Mannanase 26A, *Ruminococcus champanellensis*

Date of	compilation: 23/06/202	20 Revised: 12/10/2023 Version: 2 (Replaced 1)
SEC	TION 1: IDENTIFIC	ATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1	Product identifier	: CZ0997 - β-Mannanase 26A, <i>Ruminococcus champanellensis</i>
		Glycerol
	CAS:	56-81-5
	EC:	200-289-5
	Index:	Non-applicable
	REACH:	01-2119471987-18-XXXX
	Other means of ide	entification:
	Non-applicable	
1.2	Relevant identified	l uses of the substance or mixture and uses advised against:
	Relevant uses: Labo	atory. For professional users only.
	Uses advised agains	t: All uses not specified in this section or in section 7.3
1.3	Details of the sup	plier of the safety data sheet:
	NZYTech Estrada do Paco do L 1649-038 Lisboa - L info@nzytech.com www.nzytech.com	umiar Campus do Lumiar - Edif. E, r/c isboa - Portugal
1.4		one number: Contact Local Poison Information Center or Local Emergency Number
SEC	Tion 2: Hazards 1	IDENTIFICATION **
2.1	Classification of th	ne substance or mixture:
	CLP Regulation (E	C) No 1272/2008:
	Classification of this	product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.
	Repr. 1B: Reproduct	ation, Category 2, H319 cive toxicity, Category 1B, H360D itation, Category 2, H315
2.2	Label elements:	· • • · ·

2.2 Label elements:

# CLP Regulation (EC) No 1272/2008:

Labelling of packages where the contents do not exceed 125 ml:

Danger



#### Hazard statements:

Repr. 1B: H360D - May damage the unborn child.

### **Precautionary statements:**

P201: Obtain special instructions before use.

P280: Wear protective gloves/face protection/protective clothing/respiratory protection/protective footwear.

P308+P313: IF exposed or concerned: Get medical advice/attention.

P501: Dispose of contents/container in accordance with regulations on hazardous waste or packaging and packaging waste respectively.

## Substances that contribute to the classification

Imidazole (CAS: 288-32-4)

## Additional Labelling:

Restricted to professional users

### 2.3 Other hazards:

\*\* Changes with regards to the previous version

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legislation

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# SECTION 2: HAZARDS IDENTIFICATION \*\* (continued)

Product does not meet PBT/vPvB criteria

Endocrine-disrupting properties: The product does not meet the criteria.

\*\* Changes with regards to the previous version

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substance:

### Chemical description: Mixture of substances

### **Components:**

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

	Identification	Chemical name/Classification			
CAS:	288-32-4	Imidazole <sup>(1)</sup>		Self-classified	
EC: Index: REACH:	206-019-2 Non-applicable 01-2119485825-24- XXXX	Regulation 1272/2008	Acute Tox. 4: H302; Eye Dam. 1: H318; Repr. 1B: H360D; Skin Corr. 1C: H314 - Danger	(1)	1 - <2,5 %

<sup>(1)</sup> Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2020/878

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

#### 3.2 Mixture:

#### Non-applicable

Acute toxicity estimate for the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or as determined in accordance with Annex I to that Regulation:

Identification	Acu	Acute toxicity		
Imidazole	LD50 oral	500 mg/kg (ATEi)		
CAS: 288-32-4	LD50 dermal	Non-applicable		
EC: 206-019-2	LC50 inhalation	Non-applicable		

# SECTION 4: FIRST AID MEASURES

#### 4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

# By inhalation:

This product does not contain substances classified as hazardous for inhalation, however, in case of symptoms of intoxication remove the person affected from the exposure area and provide with fresh air. Seek medical attention if the symptoms get worse or persist.

### By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

### By eve contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

#### By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

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

Acute and delayed effects are indicated in sections 2 and 11.

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

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Revised: 12/10/2023

Version: 2 (Replaced 1)

# SECTION 4: FIRST AID MEASURES (continued)

Non-applicable

# SECTION 5: FIREFIGHTING MEASURES

#### 5.1 Extinguishing media:

### Suitable extinguishing media:

Product is non-flammable under normal conditions of storage, handling and use. In the case of combustion as a result of improper handling, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

# Unsuitable extinguishing media:

Non-applicable

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

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

#### 5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

## **Additional provisions:**

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

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

### For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

### For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

#### 6.2 **Environmental precautions:**

This product is not classified as hazardous to the environment. Keep product away from drains, surface and ground water.

#### 6.3 Methods and material for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

#### 6.4 Reference to other sections:

See sections 8 and 13.

## SECTION 7: HANDLING AND STORAGE

#### 7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6).

B.- Technical recommendations for the prevention of fires and explosions

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	compilation: 23/06/2020	Revised: 12/10/2	2025 Ve	rsion: 2 (Replace	u 1)				
ECT	ION 7: HANDLING AND	STORAGE (contin	ued)						
	Product is non-flammab to avoid the generation conditions and material	of electrostatic cha s that should be ave	rges that can a pided.	ffect flammable p					
	C Technical recommendations on general occupational hygiene PREGNANT WOMEN SHOULD NOT BE EXPOSED TO THIS PRODUCT. Transfer in designated areas that comply with the								
	PREGNANT WOMEN SH necessary safety condit equipment, especially o drink during the process D Technical recommendati	ions (emergency sh n the hands and face s, washing hands af	owers and eyev e (See section 8 terwards with s	vash stations in c ). Limit manual tr	close proximity), ansfers to small	using persor	al protection		
	It is recommended to ha	ave absorbent mater	ial available at o	close proximity to	the product (Se	e subsection	6.3)		
.2	Conditions for safe stora	ge, including any	incompatibiliti	es:					
	A Technical measures for	storage							
	Store in a cool, dry, well	-ventilated location							
	B General conditions for s	torage							
	Avoid sources of heat, r	adiation, static elect	ricity and conta	t with food. For a	additional inform	ation see sub	section 10.5		
.3	Specific end use(s):								
	Except for the instructions a	Iready specified it is	not necessary	to provide any spe	ecial recommend	dation regard	ing the uses of this		
_	TON 8: EXPOSURE CONT Control parameters: Substances whose occupati legislation): There are no applicable occ	onal exposure limits	have to be mor	itored in the worl			untry-specific		
ECT	TION 8: EXPOSURE CONT Control parameters: Substances whose occupati	onal exposure limits	have to be mor	itored in the worl			untry-specific		
_	TON 8: EXPOSURE CONT Control parameters: Substances whose occupati legislation): There are no applicable occ	onal exposure limits	have to be mor	itored in the worl			untry-specific		
_	TON 8: EXPOSURE CONT Control parameters: Substances whose occupati legislation): There are no applicable occ	onal exposure limits upational exposure l	have to be mor	itored in the worl	ed in the product		ong exposure		
_	TION 8: EXPOSURE CONT Control parameters: Substances whose occupati legislation): There are no applicable occu DNEL (Workers):	onal exposure limits upational exposure l	have to be mor	itored in the worl pstances containe Short	ed in the product	Ŀ	ong exposure		
_	TION 8: EXPOSURE CONT Control parameters: Substances whose occupati legislation): There are no applicable occu DNEL (Workers): Identifical	onal exposure limits upational exposure l	have to be mor limits for the sul	itored in the worl ostances containe Short Systemic	ed in the product exposure Local	L	ong exposure		
_	TION 8: EXPOSURE CONT Control parameters: Substances whose occupati legislation): There are no applicable occi DNEL (Workers): Identificat Imidazole	onal exposure limits upational exposure l	have to be mor limits for the sul Oral	itored in the worl ostances containe Short Non-applicable	ed in the product exposure Local Non-applicable	Systemic Non-applicable	cong exposure Local Non-applicable		
_	TION 8: EXPOSURE CONT Control parameters: Substances whose occupati legislation): There are no applicable occu DNEL (Workers): Identificat Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General populatio	onal exposure limits upational exposure l	have to be mor limits for the sul Oral Dermal	itored in the worl ostances containe Short Systemic Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	Systemic Non-applicable 1,5 mg/kg	cong exposure Local Non-applicable Non-applicable		
_	TION 8: EXPOSURE CONT Control parameters: Substances whose occupati legislation): There are no applicable occu DNEL (Workers): Identificat Imidazole CAS: 288-32-4 EC: 206-019-2	onal exposure limits upational exposure l	have to be mor limits for the sul Oral Dermal	itored in the worl ostances containe Short Systemic Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	Systemic Non-applicable 1,5 mg/kg	cong exposure Local Non-applicable Non-applicable		
_	TION 8: EXPOSURE CONT Control parameters: Substances whose occupati legislation): There are no applicable occu DNEL (Workers): Identificat Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General populatio Non-applicable PNEC:	onal exposure limits upational exposure l tion <b>n):</b>	have to be mor limits for the sul Oral Dermal	itored in the worl ostances containe Short Systemic Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	Systemic Non-applicable 1,5 mg/kg	cong exposure Local Non-applicable Non-applicable		
_	TION 8: EXPOSURE CONT Control parameters: Substances whose occupati legislation): There are no applicable occu DNEL (Workers): Identificat Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General populatio Non-applicable	onal exposure limits upational exposure l tion <b>n):</b>	have to be mor limits for the sul Oral Dermal	itored in the worl ostances containe Short Systemic Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	Systemic Non-applicable 1,5 mg/kg	ong exposure Local Non-applicable Non-applicable Non-applicable		
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_	TON 8: EXPOSURE CONT Control parameters: Substances whose occupati legislation): There are no applicable occi DNEL (Workers): Identificat Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General populatio Non-applicable PNEC: Identificat Imidazole	onal exposure limits upational exposure l tion <b>n):</b>	have to be mor limits for the sul Oral Dermal Inhalation	itored in the worl ostances containe Short Non-applicable Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable Fresh water	Non-applicable 1,5 mg/kg 10,6 mg/m <sup>3</sup>	Image: ong exposure         Local         Non-applicable         Non-applicable         Non-applicable         0,13 mg/L		
.1	TON 8: EXPOSURE CONT Control parameters: Substances whose occupati legislation): There are no applicable occi DNEL (Workers): Identificat Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General populatio Non-applicable PNEC: Identificat Imidazole CAS: 288-32-4 EC: 206-019-2	onal exposure limits upational exposure l tion <b>n):</b>	have to be mor limits for the sul Oral Dermal Inhalation	hitored in the worl ostances containe Short Non-applicable Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable Fresh water Marine water	Non-applicable 1,5 mg/kg 10,6 mg/m <sup>3</sup>	Image: ong exposure         Local         Non-applicable         Non-applicable         Non-applicable         0,13 mg/L         0,013 mg/L		
.1	TON 8: EXPOSURE CONT Control parameters: Substances whose occupati legislation): There are no applicable occi DNEL (Workers): Identificat Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General populatio Non-applicable PNEC: Identificat Imidazole CAS: 288-32-4	onal exposure limits upational exposure l tion <b>n):</b>	have to be mor limits for the sul Oral Dermal Inhalation STP Soil Intermittent	itored in the worl ostances containe Short Non-applicable Non-applicable Non-applicable 10 mg/L 0,043 mg/kg 1,3 mg/L	ed in the product exposure Local Non-applicable Non-applicable Non-applicable Fresh water Fresh water Sediment (Fresh	Non-applicable 1,5 mg/kg 10,6 mg/m <sup>3</sup>	Local       Local       Non-applicable       Non-applicable       Non-applicable       0,13 mg/L       0,336 mg/kg		
_	TON 8: EXPOSURE CONT Control parameters: Substances whose occupati legislation): There are no applicable occi DNEL (Workers): Identificat Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General populatio Non-applicable PNEC: Identificat Imidazole CAS: 288-32-4 EC: 206-019-2	onal exposure limits upational exposure l tion n):	have to be mor imits for the sul Oral Dermal Inhalation STP Soil Intermittent Oral	itored in the worl ostances containe Short Non-applicable Non-applicable Non-applicable 10 mg/L 0,043 mg/kg 1,3 mg/L Non-applicable	ed in the product exposure Local Non-applicable Non-applicable Non-applicable Fresh water Fresh water Sediment (Fresh	Non-applicable 1,5 mg/kg 10,6 mg/m <sup>3</sup>	Local       Local       Non-applicable       Non-applicable       Non-applicable       0,13 mg/L       0,336 mg/kg		

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1101	0. EXI 00011E	CONTROLS/PERSONA				
	Pictogram	PPE	Labelling	CEN Standard		Remarks
	Mandatory respiratory tract protection	Filter mask for gases and vapours	CATI	EN 405:2002+A1:2010	с	place when there is a taste or smell of the ontaminant inside the face mask. If the contaminant comes with warnings it is commended to use isolation equipment.
C	Specific protection	n for the hands	· · · ·		•	
	Pictogram	PPE	Labelling	CEN Standard		Remarks
	Mandatory hand protection	Chemical protective gloves (Material: PVC, Breakthrough time: > 480 min, Thickness: 0.7 mm)	CATI	EN ISO 21420:2020	Rep	lace the gloves at any sign of deterioratio
D	Eye and face prot	ection				
	Pictogram	PPE	Labelling	CEN Standard		Remarks
	Mandatory face protection	Face shield	CAT II	EN 166:2002 EN 167:2002 EN 168:2002 EN ISO 4007:2018		n daily and disinfect periodically according nanufacturer 's instructions. Use if there is risk of splashing.
E	Body protection					
	Pictogram	PPE	Labelling	CEN Standard		Remarks
	Mandatory complete body protection	Disposable clothing for protection against chemical risks	CATI	EN 13034:2005+A1:2009 EN 168:2002 EN ISO 13982- 1:2004/A1:2010 EN ISO 6529:2013 EN ISO 6530:2005 EN 464:1994		r professional use only. Clean periodically ording to the manufacturer's instructions.
	Mandatory foot protection	Safety footwear for protection against chemical risk	CATI	EN ISO 20345:2011 EN 13832-1:2019	R	eplace boots at any sign of deterioration.
F	Additional emerge	ency measures				
	Emergency mea	asure St	andards	Emergency measure	ure	Standards
	Emergency sho	ISO 3864-1:20	SI Z358-1 11, ISO 3864-4:201	1 Eyewash station	IS	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
Env	vironmental exp	osure controls:				•
In a spil	accordance with th	e community legislation for roduct and its container.				nmended to avoid environmental .D
	_	ve 2010/75/EU, this proc	luct has the follo	wing characteristics:		
	V.O.C. (Supply):		weight	יייווש נוומו מנוכו ושונש.		
	V.O.C. (Supply): V.O.C. density at		m <sup>3</sup> (0 g/L)			
	Average carbon n		applicable			
	Average carbon n		applicable			

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

# 9.1 Information on basic physical and chemical properties:

\*Not relevant due to the nature of the product, not providing information property of its hazards.

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ate of compilati	on: 23/06/2020 Revised: 12/10/2023	Version: 2 (Replaced 1)
SECTION 9:	PHYSICAL AND CHEMICAL PROPERTIES	S (continued)
For con	nplete information see the product datasheet.	
Арреа	rance:	
Physica	l state at 20 °C:	Liquid
Appear	ance:	Not available
Colour:		Colourless
Odour:		Odourless
Odour 1	hreshold:	Non-applicable *
Volatil	ity:	
Boiling	point at atmospheric pressure:	Non-applicable *
Vapour	pressure at 20 °C:	Non-applicable *
Vapour	pressure at 50 °C:	Non-applicable *
Evapora	ation rate at 20 °C:	Non-applicable *
Produc	t description:	
Density	at 20 °C:	1110,8 kg/m³
Relative	e density at 20 °C:	1,111
Dynami	c viscosity at 20 °C:	Non-applicable *
Kinema	tic viscosity at 20 °C:	Non-applicable *
Kinema	tic viscosity at 40 °C:	Non-applicable *
Concent	tration:	Non-applicable *
pH:		7,2
	density at 20 °C:	Non-applicable *
	n coefficient n-octanol/water 20 °C:	Non-applicable *
Solubilit	ry in water at 20 ºC:	Non-applicable *
Solubilit	y properties:	Non-applicable *
	position temperature:	Non-applicable *
-	point/freezing point:	Non-applicable *
	ability:	
Flash P		Non Flammable (>60 °C)
Flamma	ibility (solid, gas):	Non-applicable *
-	ition temperature:	480 °C
	lammability limit:	Non-applicable *
	lammability limit:	Non-applicable *
	e characteristics:	
	equivalent diameter:	Non-applicable
	information:	
	nation with regard to physical hazard clas	
	/e properties:	Non-applicable *
	g properties:	Non-applicable *
	/e to metals:	Non-applicable *
	combustion:	Non-applicable *
compor	s-total percentage (by mass) of flammable nents: <b>safety characteristics:</b>	Non-applicable *
	tension at 20 °C:	Non-applicable *
	want due to the nature of the product, not providing info	

Safety data sheet legislation

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Refraction index:       Non-applicable *         *Not relevant due to the nature of the product, not providing information property of its hazards.         SECTION 10: STABILITY AND REACTIVITY         10.1       Reactivity:         No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.         10.2       Chemical stability:         Chemical stability:       Chemical stability:         Under the specified conditions, hazardous reactions of storage, handling and use.         10.3       Possibility of hazardous reactions:         Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.         10.4       Conditions to avoid:         Applicable for handling and storage at room temperature:       Sunlight       Humidity         Shock and friction       Contact with air       Increase in temperature       Sunlight       Humidity         10.5       Incompatible materials:       Not applicable       Not applicable       Not applicable	ate of com	pilation: 23/06/2020	Revised: 12/10/2023	Version: 2 (Replac	ced 1)				
*Not relevant due to the nature of the product, not providing information property of its hazards.  SECTION 10: STABILITY AND REACTIVITY  10.1 Reactivity:  No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.  10.2 Chemical stability: Chemical stability: Chemically stable under the indicated conditions of storage, handling and use.  10.3 Possibility of hazardous reactions: Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.  10.4 Conditions to avoid: Applicable for handling and storage at room temperature:  Shock and friction Contact with air Increase in temperature Sunlight Humidity Not applicable Not applicable Not applicable Not applicable  10.5 Incompatible materials:  Acids Water Oxidising materials Combustible materials Others	SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)								
SECTION 10: STABILITY AND REACTIVITY         10.1 Reactivity:         No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.         10.2 Chemical stability:         Chemically stable under the indicated conditions of storage, handling and use.         10.3 Possibility of hazardous reactions:         Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.         10.4 Conditions to avoid:         Applicable for handling and storage at room temperature:         Shock and friction       Contact with air         Increase in temperature       Sunlight       Humidity         Not applicable       Not applicable       Not applicable       Not applicable         10.5 Incompatible materials:       Acids       Water       Oxidising materials       Others	Re	Refraction index: Non-applicable *							
10.1       Reactivity: No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.         10.2       Chemical stability: Chemical stability: Chemically stable under the indicated conditions of storage, handling and use.         10.3       Possibility of hazardous reactions: Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.         10.4       Conditions to avoid: Applicable for handling and storage at room temperature: Shock and friction Contact with air Increase in temperature Sunlight Humidity Not applicable Not applicable Not applicable Not applicable         10.5       Incompatible materials: Acids Water Oxidising materials Combustible materials Others	*N								
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Safety Data Sheet.         10.2       Chemical stability: Chemically stable under the indicated conditions of storage, handling and use.         10.3       Possibility of hazardous reactions: Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.         10.4       Conditions to avoid: Applicable for handling and storage at room temperature:         Shock and friction       Contact with air         Increase in temperature       Sunlight         Humidity       Not applicable         Not applicable       Not applicable         Incompatible materials:       Acids	10.1 R	eactivity:							
10.3 Possibility of hazardous reactions:         Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.         10.4 Conditions to avoid:         Applicable for handling and storage at room temperature:         Shock and friction       Contact with air         Increase in temperature       Sunlight         Humidity       Not applicable         Not applicable       Not applicable         Not applicable       Not applicable         Not applicable       Not applicable         Incompatible materials:       Acids         Acids       Water	Sa	No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.							
Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.         10.4       Conditions to avoid:         Applicable for handling and storage at room temperature:	Cł	hemically stable under the	e indicated conditions of st	torage, handling and use.					
10.4 Conditions to avoid:         Applicable for handling and storage at room temperature:         Shock and friction       Contact with air         Increase in temperature       Sunlight         Humidity       Not applicable         Not applicable       Not applicable         Incompatible materials:       Acids         Water       Oxidising materials         Combustible materials       Others	10.3 Pe	ossibility of hazardous	reactions:						
Applicable for handling and storage at room temperature:       Shock and friction       Contact with air       Increase in temperature       Sunlight       Humidity         Not applicable       Not applicable       Not applicable       Not applicable       Not applicable       Not applicable         10.5       Incompatible materials:       Acids       Water       Oxidising materials       Combustible materials       Others	U	nder the specified conditio	ons, hazardous reactions t	hat lead to excessive temp	peratures or pressure are	not expected.			
Shock and friction       Contact with air       Increase in temperature       Sunlight       Humidity         Not applicable       Not applicable       Not applicable       Not applicable       Not applicable         10.5       Incompatible materials:         Acids       Water       Oxidising materials       Combustible materials       Others	10.4 C	onditions to avoid:							
Not applicable         Not applicable         Not applicable         Not applicable           10.5         Incompatible materials:         Acids         Water         Oxidising materials         Combustible materials         Others	Ar	pplicable for handling and	storage at room tempera	ture:					
Acids     Water     Oxidising materials     Combustible materials		Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity			
Acids         Water         Oxidising materials         Combustible materials         Others		Not applicable	Not applicable	Not applicable	Not applicable	Not applicable			
	10.5 Incompatible materials:								
Avoid strong acids Not applicable Precaution Not applicable Avoid alkalis or strong base		Acids	Water	Oxidising materials	Combustible materials	Others			
		Avoid strong acids	Not applicable	Precaution	Not applicable	Avoid alkalis or strong bases			
	Se	ee subsection 10.3, 10.4 a	and 10.5 to find out the sr	pecific decomposition prod	lucts. Depending on the	decomposition conditions			
See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions		,		ased: carbon dioxide (CO:					

## SECTION 11: TOXICOLOGICAL INFORMATION

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

The experimental information related to the toxicological properties of the product itself is not available

### **Dangerous health implications:**

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

- A- Ingestion (acute effect):
  - Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
  - Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
- B- Inhalation (acute effect):
  - Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for inhalation. For more information see section 3.
  - Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.
- C- Contact with the skin and the eyes (acute effect):
  - Contact with the skin: Produces skin inflammation.
  - Contact with the eyes: Produces eye damage after contact.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
  - Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.
  - IARC: Non-applicable

- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

Reproductive toxicity: May damage the unborn child.

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# CZ0997 - β-Mannanase 26A, Ruminococcus champanellensis

Date of c	compilation: 23/06/2020 Revised: 12/10/2023 Version: 2 (R	eplaced 1)				
SECT	ION 11: TOXICOLOGICAL INFORMATION (continued)					
	E. Sancitizing affacts:					
	<ul> <li>E- Sensitizing effects:</li> <li>Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.</li> <li>Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.</li> <li>F- Specific target organ toxicity (STOT) - single exposure:</li> </ul>					
	<ul><li>Based on available data, the classification criteria are not met, as it doe this effect. For more information see section 3.</li><li>G- Specific target organ toxicity (STOT)-repeated exposure:</li></ul>	es not contain subst	ances classified as haz	ardous for		
	<ul> <li>Specific target organ toxicity (STOT)-repeated exposure: Based on it does not contain substances classified as hazardous for this effect.</li> <li>Skin: Based on available data, the classification criteria are not met, hazardous for this effect. For more information see section 3.</li> <li>H- Aspiration hazard:</li> </ul>	For more informati	on see section 3.	·		
	Based on available data, the classification criteria are not met, as it doe this effect. For more information see section 3. <b>Other information:</b>	es not contain subst	ances classified as haz	ardous for		
	Non-applicable					
	Specific toxicology information on the substances:					
	Identification	Acu	te toxicity	Genus		
	Imidazole	LD50 oral	500 mg/kg (ATEi)			
	CAS: 288-32-4	LD50 dermal	>2000 mg/kg			
	EC: 206-019-2	LC50 inhalation	>5 mg/L			
- 11 2	I.2 Information on other hazards:					
11.2			23 mg/L			
11.2	Endocrine disrupting properties		- 5 mg/L			
11.2	<b>Endocrine-disrupting properties</b> Endocrine-disrupting properties: The product does not meet the criteria.		2 5 mg/ E			
11.2	Endocrine disrupting properties Endocrine-disrupting properties: The product does not meet the criteria. Other information		2 5 mg/ L			
11.2	<b>Endocrine-disrupting properties</b> Endocrine-disrupting properties: The product does not meet the criteria.		2 5 mg/ L			
	Endocrine disrupting properties Endocrine-disrupting properties: The product does not meet the criteria. Other information Non-applicable		2 5 mg/ L			
	Endocrine disrupting properties Endocrine-disrupting properties: The product does not meet the criteria. Other information	•	2 S ing/L			
SECT	Endocrine disrupting properties Endocrine-disrupting properties: The product does not meet the criteria. Other information Non-applicable	oduct itself is not av				
SECT. The ex Based For mo	Endocrine disrupting properties Endocrine-disrupting properties: The product does not meet the criteria. Other information Non-applicable ION 12: ECOLOGICAL INFORMATION		ailable	this effect.		
SECT. The ex Based For mo	Endocrine disrupting properties Endocrine-disrupting properties: The product does not meet the criteria. Other information Non-applicable ION 12: ECOLOGICAL INFORMATION experimental information related to the eco-toxicological properties of the pro- on available data, the classification criteria are not met, as it does not cont ore information see section 3.		ailable	this effect.		
SECT The ex Based For me <b>12.1</b>	Endocrine disrupting properties Endocrine-disrupting properties: The product does not meet the criteria. Other information Non-applicable ION 12: ECOLOGICAL INFORMATION experimental information related to the eco-toxicological properties of the pro- on available data, the classification criteria are not met, as it does not cont ore information see section 3. Toxicity:		ailable	this effect.		
SECT The ex Based For me <b>12.1</b>	Endocrine disrupting properties Endocrine-disrupting properties: The product does not meet the criteria. Other information Non-applicable ION 12: ECOLOGICAL INFORMATION experimental information related to the eco-toxicological properties of the pro- on available data, the classification criteria are not met, as it does not cont ore information see section 3. Toxicity: Not available		ailable	this effect.		
SECT The ex Based For me 12.1 12.2	Endocrine disrupting properties Endocrine-disrupting properties: The product does not meet the criteria. Other information Non-applicable ION 12: ECOLOGICAL INFORMATION experimental information related to the eco-toxicological properties of the pro- on available data, the classification criteria are not met, as it does not cont ore information see section 3. Toxicity: Not available Persistence and degradability: Not available		ailable	this effect.		
SECT The ex Based For me 12.1 12.2	Endocrine disrupting properties Endocrine-disrupting properties: The product does not meet the criteria. Other information Non-applicable ION 12: ECOLOGICAL INFORMATION experimental information related to the eco-toxicological properties of the pro- on available data, the classification criteria are not met, as it does not cont ore information see section 3. Toxicity: Not available Persistence and degradability:		ailable	this effect.		
SECT The ex Based For ma 12.1 12.2 12.3	Endocrine disrupting properties Endocrine-disrupting properties: The product does not meet the criteria. Other information Non-applicable ION 12: ECOLOGICAL INFORMATION experimental information related to the eco-toxicological properties of the pro- on available data, the classification criteria are not met, as it does not cont ore information see section 3. Toxicity: Not available Persistence and degradability: Not available Bioaccumulative potential: Not available		ailable	this effect.		
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SECT. The ex Based For mo 12.1 12.2 12.3 12.3	Endocrine disrupting properties Endocrine-disrupting properties: The product does not meet the criteria. Other information Non-applicable ION 12: ECOLOGICAL INFORMATION experimental information related to the eco-toxicological properties of the pro- on available data, the classification criteria are not met, as it does not cont ore information see section 3. Toxicity: Not available Persistence and degradability: Not available Bioaccumulative potential: Not available		ailable	this effect.		
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SECT. The ex Based For mo 12.1 12.2 12.3 12.4 12.5	Endocrine disrupting properties Endocrine-disrupting properties: The product does not meet the criteria. Other information Non-applicable ION 12: ECOLOGICAL INFORMATION experimental information related to the eco-toxicological properties of the pro- on available data, the classification criteria are not met, as it does not cont ore information see section 3. Toxicity: Not available Persistence and degradability: Not available Bioaccumulative potential: Not available Mobility in soil: Not available Results of PBT and vPvB assessment: Product does not meet PBT/vPvB criteria		ailable	this effect.		
SECT. The ex Based For mo 12.1 12.2 12.3 12.4 12.5	Endocrine disrupting properties Endocrine-disrupting properties: The product does not meet the criteria. Other information Non-applicable ION 12: ECOLOGICAL INFORMATION experimental information related to the eco-toxicological properties of the pro- on available data, the classification criteria are not met, as it does not cont ore information see section 3. Toxicity: Not available Persistence and degradability: Not available Bioaccumulative potential: Not available Mobility in soil: Not available Results of PBT and vPvB assessment: Product does not meet PBT/vPvB criteria Endocrine disrupting properties:		ailable	this effect.		
SECT The ex Based For ma 12.1 12.2 12.3 12.4 12.5 12.6	Endocrine disrupting properties Endocrine-disrupting properties: The product does not meet the criteria. Other information Non-applicable ION 12: ECOLOGICAL INFORMATION experimental information related to the eco-toxicological properties of the pro- on available data, the classification criteria are not met, as it does not cont ore information see section 3. Toxicity: Not available Persistence and degradability: Not available Bioaccumulative potential: Not available Mobility in soil: Not available Results of PBT and vPvB assessment: Product does not meet PBT/vPvB criteria Endocrine disrupting properties: The product does not meet the criteria.		ailable	this effect.		
SECT. The ex Based For ma 12.1 12.2 12.3 12.4 12.5 12.6	Endocrine disrupting properties Endocrine-disrupting properties: The product does not meet the criteria. Other information Non-applicable ION 12: ECOLOGICAL INFORMATION experimental information related to the eco-toxicological properties of the pro- on available data, the classification criteria are not met, as it does not cont ore information see section 3. Toxicity: Not available Persistence and degradability: Not available Bioaccumulative potential: Not available Mobility in soil: Not available Results of PBT and vPvB assessment: Product does not meet PBT/vPvB criteria Endocrine disrupting properties:		ailable	this effect.		

- CONTINUED ON NEXT PAGE -

Version: 2 (Replaced 1)

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# CZ0997 - β-Mannanase 26A, Ruminococcus champanellensis

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# SECTION 13: DISPOSAL CONSIDERATIONS 13.1 Waste treatment methods: Waste class (Regulation (EU) No Code Description 1357/2014) It is not possible to assign a specific code, as it depends on the intended use by the user Dangerous Type of waste (Regulation (EU) No 1357/2014): HP10 Toxic for reproduction Waste management (disposal and evaluation): Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See paragraph 6.2. **Regulations related to waste management:** In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014 SECTION 14: TRANSPORT INFORMATION Transport of dangerous goods by land: With regard to ADR 2023 and RID 2023: 14.1 UN number or ID number: Non-applicable

		Non-applicable
14.2	UN proper shipping name:	Non-applicable
14.3	Transport hazard class(es):	Non-applicable
	Labels:	Non-applicable
14.4	Packing group:	Non-applicable
14.5	Environmental hazards:	No
14.6	Special precautions for user	
	Special regulations:	Non-applicable
	Tunnel restriction code:	Non-applicable
	Physico-Chemical properties:	see section 9
	Limited quantities:	Non-applicable
14.7	Maritime transport in bulk	Non-applicable
	according to IMO	
	instruments:	
Transpor	t of dangerous goods by sea:	
With rega	rd to IMDG 40-20:	
14.1	UN number or ID number:	Non-applicable
	UN number or ID number: UN proper shipping name:	Non-applicable Non-applicable
	UN proper shipping name:	••
14.2 14.3	UN proper shipping name: Transport hazard class(es): Labels:	Non-applicable
14.2 14.3	UN proper shipping name: Transport hazard class(es):	Non-applicable Non-applicable
14.2 14.3 14.4	UN proper shipping name: Transport hazard class(es): Labels:	Non-applicable Non-applicable Non-applicable
14.2 14.3 14.4	UN proper shipping name: Transport hazard class(es): Labels: Packing group: Marine pollutant:	Non-applicable Non-applicable Non-applicable Non-applicable
14.2 14.3 14.4 14.5	UN proper shipping name: Transport hazard class(es): Labels: Packing group: Marine pollutant:	Non-applicable Non-applicable Non-applicable Non-applicable
14.2 14.3 14.4 14.5	UN proper shipping name: Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user	Non-applicable Non-applicable Non-applicable Non-applicable No
14.2 14.3 14.4 14.5	UN proper shipping name: Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations:	Non-applicable Non-applicable Non-applicable Non-applicable No
14.2 14.3 14.4 14.5	UN proper shipping name: Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes:	Non-applicable Non-applicable Non-applicable No Non-applicable
14.2 14.3 14.4 14.5	UN proper shipping name: Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties:	Non-applicable Non-applicable Non-applicable No Non-applicable No Non-applicable see section 9
14.2 14.3 14.4 14.5	UN proper shipping name: Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group:	Non-applicable Non-applicable Non-applicable No Non-applicable See section 9 Non-applicable
14.2 14.3 14.4 14.5 14.6	UN proper shipping name: Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group: Maritime transport in bulk according to IMO	Non-applicable Non-applicable Non-applicable No Non-applicable See section 9 Non-applicable Non-applicable
14.2 14.3 14.4 14.5 14.6	UN proper shipping name: Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group: Maritime transport in bulk	Non-applicable Non-applicable Non-applicable No Non-applicable See section 9 Non-applicable Non-applicable

Transport of dangerous goods by air:

Revised: 12/10/2023

Safety data sheet legislation

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Date of compilation:	23/06/2020 Revised: 12/	10/2023	Version: 2 (Replaced 1)
SECTION 14: T	RANSPORT INFORMATION (	continued)	
With rega	ard to IATA/ICAO 2023:		
14.1	UN number or ID number:	Non-applicable	
14.2	UN proper shipping name:	Non-applicable	
14.3	Transport hazard class(es):	Non-applicable	
	Labels:	Non-applicable	
14.4	Packing group:	Non-applicable	
14.5	Environmental hazards:	No	
14.6	Special precautions for user		
	Physico-Chemical properties:	see section 9	
14.7	Maritime transport in bulk according to IMO instruments:	Non-applicable	

### SECTION 15: REGULATORY INFORMATION

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

Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable

Article 95, REGULATION (EU) No 528/2012: Non-applicable

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

### Seveso III:

Non-applicable

### Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc ....):

Product classified hazardous under the CMR. Sale and distribution to the general public is prohibited. Due to its CMR category, it is essential to apply the specific measures for workplace hazard prevention covered in articles 4 and 5 of the 2004/37/EC Directive and later modifications.

Shall not be used in:

and ashtravs.

-tricks and jokes,

-games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

## Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

### Other legislation:

The product could be affected by sectorial legislation

## 15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

# SECTION 16: OTHER INFORMATION \*\*

## Legislation related to safety data sheets:

The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878).

Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:

\*\* Changes with regards to the previous version

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Date of compilation: 23/06/2020	Revised: 12/10/2023	Version: 2 (Replaced 1)
SECTION 16: OTHER INFORM	ATION ** (continued)	
COMMISSION REGULATION CLP Regulation (EC) No 127 · Hazard statements		ON 16):
Texts of the legislative p H315: Causes skin irritation. H360D: May damage the un H319: Causes serious eye in	born child.	tion 2:
Texts of the legislative p		tion 3:
The phrases indicated do no individual components whic		; they are present merely for informative purposes and refer to the
CLP Regulation (EC) No 1 Acute Tox. 4: H302 - Harmf Eye Dam. 1: H318 - Causes Repr. 1B: H360D - May dam Skin Corr. 1C: H314 - Cause	ul if swallowed. serious eye damage. age the unborn child.	e damage.
Advice related to training		
	order to prevent industrial	risks for staff using this product and to facilitate their comprehension and label on the product.
Principal bibliographical		
http://echa.europa.eu		
http://eur-lex.europa.eu		
Abbreviations and acrony	/ms:	
IMDG: International maritin IATA: International Air Trar ICAO: International Civil Avi COD: Chemical Oxygen Der BOD5: 5day biochemical oxy BCF: Bioconcentration facto LD50: Lethal Dose 50 LC50: Lethal Concentration EC50: Effective concentration LogPOW: Octanolwater part	ne dangerous goods code asport Association ation Organisation nand rgen demand r 50 n 50	al carriage of dangerous goods by road
Koc: Partition coefficient of UFI: unique formula identifi IARC: International Agency	organic carbon er	

\*\* Changes with regards to the previous version

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.