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This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

CZ0565 - β-Mannanase 5A, Bacillus sp.

Date of	compilation: 23/06/20	020 Revised: 12/10/2023 Version: 2 (Replaced 1)
SECT	FION 1: IDENTIFIC	CATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1	Product identifier	r: CZ0565 - β-Mannanase 5A, <i>Bacillus sp.</i>
		Glycerol
	CAS:	56-81-5
	EC:	200-289-5
	Index:	Non-applicable
	REACH:	01-2119471987-18-XXXX
	Other means of id	lentification:
	Non-applicable	
1.2	Relevant identifie	d uses of the substance or mixture and uses advised against:
	Relevant uses: Labo	pratory. For professional users only.
	Uses advised agains	st: 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 I 1649-038 Lisboa - L info@nzytech.com www.nzytech.com	Lumiar Campus do Lumiar - Edif. E, r/c Lisboa - Portugal
1.4		none number: Contact Local Poison Information Center or Local Emergency Number
SEC1	FION 2: HAZARDS	IDENTIFICATION **
2.1	Classification of t	he substance or mixture:

CLP Regulation (EC) No 1272/2008:

Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.

Eye Irrit. 2: Eye irritation, Category 2, H319 Repr. 1B: Reproductive toxicity, Category 1B, H360D Skin Irrit. 2: Skin irritation, Category 2, H315

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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SECTION 2: HAZARDS IDENTIFICATION ** (continued)

Product does not meet PBT/vPvB criteria

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

Revised: 12/10/2023

** 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		Concentration
CAS:	288-32-4	Imidazole ⁽¹⁾		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 - <2,5 %

⁽¹⁾ 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	te toxicity	Genus
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 eye 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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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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	ION 7: HANDLING AND STORAGE (continued)							
		continucuy							
	Product is non-flammable under norm to avoid the generation of electrosta conditions and materials that should	tic charges that can a be avoided.	ffect flammable p						
	C Technical recommendations on general occupational hygiene								
	PREGNANT WOMEN SHOULD NOT B necessary safety conditions (emerge equipment, especially on the hands a drink during the process, washing ha D Technical recommendations to prever	ncy showers and eyew nd face (See section 8 ands afterwards with s	wash stations in c). Limit manual tr	close proximity), ransfers to small	using personal	protection			
	It is recommended to have absorbent	t material available at o	close proximity to	the product (Se	e subsection 6.3)			
7.2	Conditions for safe storage, including	g any incompatibiliti	ies:						
	A Technical measures for storage								
	Store in a cool, dry, well-ventilated lo	cation							
	B General conditions for storage								
	Avoid sources of heat, radiation, stati	c electricity and conta	ct with food. For a	additional inform	ation see subsec	tion 10.5			
7.3	Specific end use(s):	,							
	Except for the instructions already specif	ied it is not necessary	to provide any sp	ecial recommend	lation regarding	the uses of this			
	product.	icu icis not necessary	to provide any sp		ation regarding				
	TON 8: EXPOSURE CONTROLS/PERS Control parameters: Substances whose occupational exposure legislation):			kplace (Europea	n OEL, not count	ry-specific			
	Control parameters: Substances whose occupational exposure	e limits have to be mor	nitored in the wor		n OEL, not count	ry-specific			
	Control parameters: Substances whose occupational exposure legislation):	e limits have to be mor	nitored in the wor						
	Control parameters: Substances whose occupational exposure legislation): There are no applicable occupational exp	e limits have to be mor	hitored in the wor ostances containe Short	ed in the product		exposure			
	Control parameters: Substances whose occupational exposure legislation): There are no applicable occupational exp DNEL (Workers):	e limits have to be mor	nitored in the wor	ed in the product	Long	exposure			
	Control parameters: Substances whose occupational exposure legislation): There are no applicable occupational exp DNEL (Workers): Identification	e limits have to be mor posure limits for the sul	nitored in the wor postances containe Short Systemic	ed in the product exposure Local	Long Systemic	exposure Local			
5ECT	Control parameters: Substances whose occupational exposure legislation): There are no applicable occupational exp DNEL (Workers): Identification Imidazole	e limits have to be mor posure limits for the sul Oral	nitored in the wor postances containe Short Systemic Non-applicable	ed in the product exposure Local Non-applicable	Long Systemic Non-applicable	exposure Local Non-applicable			
	Control parameters: Substances whose occupational exposure legislation): There are no applicable occupational exp DNEL (Workers): Identification Imidazole CAS: 288-32-4	e limits have to be mor posure limits for the sul Oral Dermal	hitored in the wor ostances containe Short Systemic Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	Long Systemic Non-applicable 1,5 mg/kg	exposure Local Non-applicable Non-applicable			
	Control parameters: Substances whose occupational exposure legislation): There are no applicable occupational exp DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2	e limits have to be mor posure limits for the sul Oral Dermal	hitored in the wor ostances containe Short Systemic Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	Long Systemic Non-applicable 1,5 mg/kg	exposure Local Non-applicable Non-applicable			
	Control parameters: Substances whose occupational exposure legislation): There are no applicable occupational exp DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population):	e limits have to be mor posure limits for the sul Oral Dermal	hitored in the wor ostances containe Short Systemic Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	Long Systemic Non-applicable 1,5 mg/kg	exposure Local Non-applicable Non-applicable			
	Control parameters: Substances whose occupational exposure legislation): There are no applicable occupational exp DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population): Non-applicable	e limits have to be mor posure limits for the sul Oral Dermal	hitored in the wor ostances containe Short Systemic Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	Long Systemic Non-applicable 1,5 mg/kg	exposure Local Non-applicable Non-applicable			
	Control parameters: Substances whose occupational exposure legislation): There are no applicable occupational exp DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population): Non-applicable PNEC: Identification Imidazole	e limits have to be mor posure limits for the sul Oral Dermal Inhalation	hitored in the wor ostances containe Short Non-applicable Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable Fresh water	Long Systemic Non-applicable 1,5 mg/kg 10,6 mg/m ³	exposure Local Non-applicable Non-applicable Non-applicable			
	Control parameters: Substances whose occupational exposure legislation): There are no applicable occupational exp DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population): Non-applicable PNEC: Identification Imidazole CAS: 288-32-4	e limits have to be mor posure limits for the sul Oral Dermal Inhalation STP Soil	hitored in the wor ostances containe Short Non-applicable Non-applicable Non-applicable 10 mg/L 0,043 mg/kg	ed in the product et a construct et	Long Systemic Non-applicable 1,5 mg/kg 10,6 mg/m ³	exposure Local Non-applicable Non-applicable Non-applicable			
	Control parameters: Substances whose occupational exposure legislation): There are no applicable occupational exp DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population): Non-applicable PNEC: Identification Imidazole	e limits have to be mor posure limits for the sul Oral Dermal Inhalation STP Soil Intermittent	hitored in the wor postances 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 Karine water Sediment (Fresh	Long Systemic Non-applicable 1,5 mg/kg 10,6 mg/m³	exposure Local Non-applicable Non-applicable Non-applicable 13 mg/L 013 mg/L 336 mg/kg			
3.1	Control parameters: Substances whose occupational exposure legislation): There are no applicable occupational exp DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population): Non-applicable PNEC: Identification Imidazole CAS: 288-32-4 EC: 206-019-2	e limits have to be mor posure limits for the sul Oral Dermal Inhalation STP Soil	hitored in the wor ostances containe Short Non-applicable Non-applicable Non-applicable 10 mg/L 0,043 mg/kg	ed in the product et a construct et	Long Systemic Non-applicable 1,5 mg/kg 10,6 mg/m³	exposure Local Non-applicable Non-applicable Non-applicable			
	Control parameters: Substances whose occupational exposure legislation): There are no applicable occupational exp DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population): Non-applicable PNEC: Identification Imidazole CAS: 288-32-4	e limits have to be mor posure limits for the sul Oral Dermal Inhalation STP Soil Intermittent Oral	hitored in the wor 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 Karine water Sediment (Fresh	Long Systemic Non-applicable 1,5 mg/kg 10,6 mg/m³	exposure Local Non-applicable Non-applicable Non-applicable 13 mg/L 013 mg/L 336 mg/kg			

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TION 8: EX	POSURE	CONTROLS/PERSONA	L PROTECTIO	N (continued)		
Pic	togram	PPE	Labelling	CEN Standard		Remarks
respir	andatory ratory tract otection	Filter mask for gases and vapours	CAT III	EN 405:2002+A1:2010	C	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	c protection	n for the hands				
Pic	togram	PPE	Labelling	CEN Standard		Remarks
	atory hand otection	Chemical protective gloves (Material: PVC, Breakthrough time: > 480 min, Thickness: 0.7 mm)	CATI	EN ISO 21420:2020	Repl	ace the gloves at any sign of deterioration
D Eye and	d face prot	ection	· · · ·			
Pic	togram	PPE	Labelling	CEN Standard		Remarks
	latory face otection	Face shield	CAT II	EN 166:2002 EN 167:2002 EN 168:2002 EN ISO 4007:2018		a daily and disinfect periodically according nanufacturer's instructions. Use if there is risk of splashing.
E Body p	rotection		P			
Pic	togram	PPE	Labelling	CEN Standard		Remarks
	ory complete 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.
pro	latory foot otection	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 Additio	nal emerge	ency measures				
En	nergency mea	asure St	andards	Emergency measure	ure	Standards
E	mergency sho	ISO 3864-1:20	SI Z358-1 111, ISO 3864-4:201:	1 Eyewash station	IS	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
Environm	ental exp	osure controls:				
In accorda	nce with th both the p	e community legislation roduct and its container.				nmended to avoid environmental .D
With regar	d to Directi	ve 2010/75/EU, this proc	luct has the follo	wing characteristics:		
V.O.C.	(Supply):	0 % \	weight			
V.O.C.	density at	20 °C: 0 kg/	m³ (0 g/L)			
Averag	e carbon n	umber: Non-a	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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CZ0565 - β-Mannanase 5A, *Bacillus sp.*

	compilation: 23/06/2020 Revised: 12/10/2023	Version: 2 (Replaced 1)
SECT	TON 9: PHYSICAL AND CHEMICAL PROPERTIE	S (continued)
	For complete information see the product datasheet.	
	Appearance:	
	Physical state at 20 °C:	Liquid
	Appearance:	Not available
	Colour:	Colourless
	Odour:	Odourless
	Odour threshold:	Non-applicable *
	Volatility:	
	Boiling point at atmospheric pressure:	Non-applicable *
	Vapour pressure at 20 °C:	Non-applicable *
	Vapour pressure at 50 °C:	Non-applicable *
	Evaporation rate at 20 °C:	Non-applicable *
	Product description:	
	Density at 20 °C:	1110,8 kg/m ³
	Relative density at 20 °C:	1,111
	Dynamic viscosity at 20 °C:	Non-applicable *
	Kinematic viscosity at 20 °C:	Non-applicable *
	Kinematic viscosity at 40 °C:	Non-applicable *
	Concentration:	Non-applicable *
	pH:	7,2
	Vapour density at 20 °C:	Non-applicable *
	Partition coefficient n-octanol/water 20 °C:	Non-applicable *
	Solubility in water at 20 °C:	Non-applicable *
	Solubility properties:	Non-applicable *
	Decomposition temperature:	Non-applicable *
	Melting point/freezing point:	Non-applicable *
	Flammability:	
	Flash Point:	Non Flammable (>60 °C)
	Flammability (solid, gas):	Non-applicable *
	Autoignition temperature:	480 °C
	Lower flammability limit:	Non-applicable *
	Upper flammability limit:	Non-applicable *
	Particle characteristics:	
	Median equivalent diameter:	Non-applicable
9.2	Other information:	
	Information with regard to physical hazard clas	sses:
	Explosive properties:	Non-applicable *
	Oxidising properties:	Non-applicable *
	Corrosive to metals:	Non-applicable *
	Heat of combustion:	Non-applicable *
	Aerosols-total percentage (by mass) of flammable components: Other safety characteristics:	Non-applicable *
	Surface tension at 20 °C:	Non-applicable *
	*Not relevant due to the nature of the product, not providing info	

Safety data sheet legislation

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ate of compilation: 23/06	/2020 Revised: 12/10/20	23 Version: 2 (Replace	ed 1)	
SECTION 9: PHYSIC	AL AND CHEMICAL PROPER	TIES (continued)		
Refraction index:		Non-applicable *		
*Not relevant due to	the nature of the product, not providing	information property of its hazards.		
SECTION 10: STABI	ITY AND REACTIVITY			
10.1 Reactivity:				
No hazardous rea Safety Data She 10.2 Chemical stabil		e product is stable under recom	mended storage condition	ons. See section 7 from
Chemically stable	e under the indicated conditions o	of storage, handling and use.		
10.3 Possibility of h	azardous reactions:			
Under the specifi	ed conditions, hazardous reaction	ns that lead to excessive tempe	eratures or pressure are i	not expected.
10.4 Conditions to a	void:			
Applicable for ha	ndling and storage at room temp	erature:		
	ction Contact with air	Increase in temperature	Sunlight	Humidity
Shock and fri				

Acids Water Oxidising materials Combustible materials Others Avoid strong acids Not applicable Precaution Not applicable Avoid alkalis or strong bases

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

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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	ompilation: 23/06/2020	Revised: 12/10/2023	Version: 2 (Re			
SECT.	ION 11: TOXICOLOGICA	L INFORMATION (contin	nued)			
	E- Sensitizing effects:					
	hazardous with sensitisi - Skin: Based on availa	n available data, the classific ng effects. For more inform ble data, the classification c t. For more information see .icity (STOT) - single exposu	ation see section 3 riteria are not met, e section 3.			
	Based on available data, this effect. For more info G- Specific target organ tox			s not contain sub	ostances classified as h	azardous for
	it does not contain subs - Skin: Based on availa	toxicity (STOT)-repeated ex tances classified as hazardo ble data, the classification c t. For more information see	ous for this effect. I riteria are not met,	For more informa	ation see section 3.	
	Based on available data, this effect. For more info Other information:	the classification criteria are ormation see section 3.	e not met, as it doe	s not contain sub	ostances classified as h	azardous for
	Non-applicable					
	Specific toxicology inform	nation on the substances	:			
		Identification		А	cute toxicity	Genus
	Imidazole			LD50 oral	500 mg/kg (ATEi)	
	CAS: 288-32-4			LD50 dermal	>2000 mg/kg	
11.2	CAS: 288-32-4 EC: 206-019-2 Information on other ha Endocrine disrupting prop Endocrine-disrupting propert	perties	neet the criteria.	LD50 dermal LC50 inhalation		
11.2	EC: 206-019-2 Information on other ha Endocrine disrupting propert Endocrine-disrupting propert Other information	perties	neet the criteria.		>2000 mg/kg	
11.2	EC: 206-019-2 Information on other ha Endocrine disrupting properties	perties	neet the criteria.		>2000 mg/kg	
	EC: 206-019-2 Information on other ha Endocrine disrupting propert Endocrine-disrupting propert Other information Non-applicable	perties ties: The product does not n	neet the criteria.		>2000 mg/kg	
SECT	EC: 206-019-2 Information on other ha Endocrine disrupting propert Other information Non-applicable ION 12: ECOLOGICAL IN	perties ties: The product does not m FORMATION		LC50 inhalation	>2000 mg/kg >5 mg/L	
SECT! The ex	EC: 206-019-2 Information on other ha Endocrine disrupting propertion Endocrine-disrupting propertion Other information Non-applicable ION 12: ECOLOGICAL IN xperimental information related	perties ties: The product does not m FORMATION ed to the eco-toxicological p	roperties of the pro	LC50 inhalation	>2000 mg/kg >5 mg/L available	
SECT. The ex Based	EC: 206-019-2 Information on other ha Endocrine disrupting propertion Endocrine-disrupting propertion Other information Non-applicable ION 12: ECOLOGICAL IN experimental information related on available data, the classifi	perties ties: The product does not m FORMATION ed to the eco-toxicological pr ication criteria are not met, a	roperties of the pro	LC50 inhalation	>2000 mg/kg >5 mg/L available	or this effect.
SECTI The ex Based For mo	EC: 206-019-2 Information on other ha Endocrine disrupting propertor Other information Non-applicable ION 12: ECOLOGICAL IN experimental information related on available data, the classific ore information see section 3	perties ties: The product does not m FORMATION ed to the eco-toxicological pr ication criteria are not met, a	roperties of the pro	LC50 inhalation	>2000 mg/kg >5 mg/L available	or this effect.
SECTI The ex Based For mo	EC: 206-019-2 Information on other ha Endocrine disrupting propert Other information Non-applicable ION 12: ECOLOGICAL IN xperimental information relate on available data, the classif ore information see section a Toxicity:	perties ties: The product does not m FORMATION ed to the eco-toxicological pr ication criteria are not met, a	roperties of the pro	LC50 inhalation	>2000 mg/kg >5 mg/L available	or this effect.
SECTI The ex Based For mo 12.1	EC: 206-019-2 Information on other ha Endocrine disrupting propert Other information Non-applicable ION 12: ECOLOGICAL IN xperimental information related on available data, the classific ore information see section 3 Toxicity: Not available	perties ties: The product does not m FORMATION ed to the eco-toxicological pr ication criteria are not met, a 3.	roperties of the pro	LC50 inhalation	>2000 mg/kg >5 mg/L available	or this effect.
SECTI The ex Based For mo 12.1	EC: 206-019-2 Information on other has Endocrine disrupting propert Other information Non-applicable ION 12: ECOLOGICAL IN xperimental information relate on available data, the classif ore information see section 3 Toxicity: Not available Persistence and degradal	perties ties: The product does not m FORMATION ed to the eco-toxicological pr ication criteria are not met, a 3.	roperties of the pro	LC50 inhalation	>2000 mg/kg >5 mg/L available	or this effect.
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- CONTINUED ON NEXT PAGE -

Version: 2 (Replaced 1)

Revised: 12/10/2023



This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific

legislation

CZ0565 - β-Mannanase 5A, Bacillus sp.

Date of compilation: 23/06/2020

Revised: 12/10/2023

Version: 2 (Replaced 1)

131	Waste treatment methods	

SECTION 13: DISPOSAL CONSIDERATIONS

Code	Description	Waste class (Regulation (EU) No 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:

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

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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:

--ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,

—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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CZ0565 - β-Mannanase 5A, Bacillus sp.

Date of compilation: 23/06/2020	Revised: 12/10/2023	Version: 2 (Replaced 1)
SECTION 16: OTHER INFORM	ATION ** (continued)	
COMMISSION REGULATION (EU) 2020/878 CLP Regulation (EC) No 1272/2008 (SECTION 2, SECTION 16): • Hazard statements		
Texts of the legislative pl H315: Causes skin irritation. H360D: May damage the unl H319: Causes serious eye ir	oorn child.	ction 2:
Texts of the legislative phrases mentioned in section 3:		
The phrases indicated do no individual components which		f; they are present merely for informative purposes and refer to the
CLP Regulation (EC) No 1 Acute Tox. 4: H302 - Harmfu Eye Dam. 1: H318 - Causes Repr. 1B: H360D - May dam Skin Corr. 1C: H314 - Cause	Il if swallowed. serious eye damage. age the unborn child.	re damage.
Advice related to training	•	5
Training is recommended in interpretation of this safety		risks for staff using this product and to facilitate their comprehension and label on the product.
Principal bibliographical sources:		
http://echa.europa.eu http://eur-lex.europa.eu		
Abbreviations and acronyms:		
ADR: European agreement concerning the international carriage of dangerous goods by road IMDG: International maritime dangerous goods code IATA: International Air Transport Association ICAO: International Civil Aviation Organisation		
COD: Chemical Oxygen Demand BOD5: 5day biochemical oxygen demand BCF: Bioconcentration factor LD50: Lethal Dose 50		
LC50: Lethal Concentration 50 EC50: Effective concentration 50 LogPOW: Octanolwater partition coefficient		
Koc: Partition coefficient of organic carbon UFI: unique formula identifier IARC: International Agency for Research on Cancer		

** 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.