Safety data sheet legislation

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## CZ0181 - Cellobiohydrolase 9A, Clostridium thermocellum

Date of	compilation: 23/06/20	20 Revised: 12/10/2023 Version: 2 (Replaced 1)		
	• • • •	ATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING		
1.1	Product identifier	: CZ0181 - Cellobiohydrolase 9A, <i>Clostridium thermocellum</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	d uses of the substance or mixture and uses advised against:		
	Relevant uses: Labo	ratory. 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 Lumiar Campus do Lumiar - Edif. E, r/c 1649-038 Lisboa - Lisboa - Portugal info@nzytech.com			
1.4	www.nzytech.com Emergency teleph	one number: Contact Local Poison Information Center or Local Emergency Number		
SECT	TION 2: HAZARDS	IDENTIFICATION **		
2.1	Classification of th	he substance or mixture:		
	CLP Regulation (E	EC) No 1272/2008:		
		and ust has been carried out in accordance with CLD Deculation (EC) No. 1272/2009		

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.

\*\* 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	(I) (I) (I) (I) (I) (I) (I) (I) (I) (I)	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	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 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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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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#### allahiahuduala Clastridium tharmosally

			/2023 V	ersion: 2 (Replace	d 1)							
	ION 7. HANDLING AND 3	STORAGE (conti	nued)									
	Product is non-flammabl to avoid the generation conditions and materials C Technical recommendati	of electrostatic ch that should be a	harges that can a voided.	affect flammable p								
	PREGNANT WOMEN SH necessary safety conditi equipment, especially or drink during the process D Technical recommendation	ons (emergency s the hands and fa , washing hands	showers and eye ce (See section a afterwards with	wash stations in c 8). Limit manual tr suitable cleaning	close proximity), ransfers to small	using persona	l protection					
	It is recommended to ha	ve absorbent mat	erial available at	close proximity to	the product (Se	e subsection 6.	3)					
2	Conditions for safe storage	ge, including an	y incompatibilit	ties:								
	A Technical measures for storage											
	Store in a cool, dry, well-ventilated location											
	B General conditions for s											
	Avoid sources of heat, ra	-	ctricity and contr	act with food For	additional inform	ation see subco	action 10 5					
2												
3	Specific end use(s):					1. P						
	Except for the instructions a product.	lready specified it	is not necessary	to provide any sp	ecial recommend	dation regardin	g the uses of thi					
	DNEL (Workers):											
					exposure		g exposure					
	Identificat	on		Systemic	Local	Systemic	Local					
	Imidazole		Oral Dermal	Non-applicable	Non-applicable	Non-applicable 1,5 mg/kg	Non-applicable					
	CAS: 288-32-4 EC: 206-019-2		Inhalation	Non-applicable Non-applicable	Non-applicable Non-applicable	1,5 mg/kg 10,6 mg/m <sup>3</sup>	Non-applicable Non-applicable					
		.).	Innelacion	Non applicable	Horr upplicable	10,0 mg/m	Holl upplicable					
	DNEL (General population):											
	<b>、 ・ ・</b>											
	Non-applicable											
	Non-applicable PNEC:		_									
	Non-applicable PNEC: Identificat	on		10 mg//	Erech weter		2.12 mg/l					
	Non-applicable PNEC: Identificat Imidazole	on	STP Soil	10 mg/L	Fresh water		0,13 mg/L					
	Non-applicable PNEC: Identificat Imidazole CAS: 288-32-4	on	STP Soil Intermittent	0,043 mg/kg	Marine water	(	0,013 mg/L					
	Non-applicable PNEC: Identificat Imidazole	on	Soil			n water) (	-					
	Non-applicable PNEC: Identificat Imidazole CAS: 288-32-4	on	Soil Intermittent	0,043 mg/kg 1,3 mg/L	Marine water Sediment (Fresh	n water) (	0,013 mg/L 0,336 mg/kg					
2	Non-applicable PNEC: Identificat Imidazole CAS: 288-32-4 EC: 206-019-2		Soil Intermittent Oral	0,043 mg/kg 1,3 mg/L Non-applicable	Marine water Sediment (Fresh	n water) (	0,013 mg/L 0,336 mg/kg					

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TION	6: EXPOSURE	CONTROLS/PERSON	AL PROTECTI	ON (CONTINU	lea)		
	Pictogram	PPE	Labelling	CEN St	andard		Remarks
	Mandatory respiratory tract protection	Filter mask for gases and vapours	CAT III	EN 405:200	2+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 protection	n for the hands					
	Pictogram	PPE	Labelling	CEN St	andard		Remarks
	Mandatory hand protection	Chemical protective gloves (Material: PVC, Breakthrough time: > 480 min, Thickness: 0.7 mm)		EN ISO 21	1420:2020	Repl	ace the gloves at any sign of deterioratic
D	Eye and face prot	ection					
	Pictogram	PPE	Labelling	CEN St	andard		Remarks
	Mandatory face protection	Face shield	CAT II	EN 166 EN 167 EN 168 EN ISO 40	7:2002 3:2002		a daily and disinfect periodically according nanufacturer 's instructions. Use if there risk of splashing.
E	Body protection			·			
	Pictogram	PPE	Labelling	CEN St	andard		Remarks
	Mandatory complete body protection	Disposable clothing for protection against chemical risks		EN 13034:20 EN 168 EN ISO 1:2004// EN ISO 6 EN ISO 6 EN ISO 6 EN 464	3:2002 13982- A1:2010 529:2013 530:2005		r professional use only. Clean periodicall ording to the manufacturer's instructions
	Mandatory foot protection	Safety footwear for protection against chemical risk		EN ISO 20 EN 13832		Re	eplace boots at any sign of deterioration.
F	Additional emerge	ncy measures					
	Emergency mea	isure	Standards	Em	nergency measu	ure	Standards
	Emergency sho	ISO 3864-1:2	NSI Z358-1 011, ISO 3864-4:20		Eyewash station	ns	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
Env	vironmental exp	osure controls:					
In a spil <b>Vol</b>	accordance with th lage of both the p latile organic cor	e community legislatior roduct and its containe	r. For additional	information	see subsecti		nmended to avoid environmental D
	V.O.C. (Supply):	0 %	weight				
	V.O.C. density at	20 ºC: 0 kg	/m³ (0 g/L)				
	Average carbon n	umber: Non	-applicable				
	Average molecular	weight: Non	-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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Date of compilation: 23/06/2020 Revised: 12/1	0/2023 Version: 2 (Replaced 1)
SECTION 9: PHYSICAL AND CHEMICAL PRO	PERTIES (continued)
For complete information see the product dat	asheet.
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 <sup>3</sup>
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:	Nen andiable
Median equivalent diameter: 9.2 Other information:	Non-applicable
Information with regard to physical haz	vard classes
Explosive properties:	Non-applicable *
Oxidising properties:	Non-applicable *
Corrosive to metals:	Non-applicable *
Heat of combustion:	Non-applicable *
Aerosols-total percentage (by mass) of flamm	
components:	
Other safety characteristics:	
Surface tension at 20 °C:	Non-applicable *
*Not relevant due to the nature of the product, not pro	<i>v</i> iding information property of its hazards.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)							
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. 0.2 Chemical stability:						
	Chemically stable under the	indicated conditions of st	torage, handling and use.				
10.3	Possibility of hazardous	reactions:					
	Under the specified condition	ns, hazardous reactions t	hat lead to excessive temp	eratures or pressure are	not expected.		
10.4	Conditions to avoid:						
	Applicable for handling and	storage at room tempera	ture:				
	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		
		Avoid strong acids Not applicable Precaution Not applicable Avoid alkalis or strong					

### complex mixtures of chemical substances can be released: carbon dioxide (CO<sub>2</sub>), 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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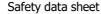
8 NZYtech

# CZ0181 - Cellobiohydrolase 9A, Clostridium thermocellum

Date of c	ompilation: 23/06/2020	Revised: 12/10/2023	Version: 2 (Re	placed 1)		
SECT	ION 11: TOXICOLOGICA	INFORMATION (continu	ued)			
	E- Sensitizing effects:					
	<ul> <li>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> <li>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> </ul>					
	<ul> <li>G- Specific target organ toxicity (STOT)-repeated exposure:</li> <li>Specific target organ toxicity (STOT)-repeated exposure: 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>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 substances classified as hazardous for this effect. For more information see section 3.</li> <li>H- Aspiration hazard:</li> </ul>					fied as
	this effect. For more info Other information: Non-applicable		not met, as it doe	s not contain sur	ostances classified as he	
	Specific toxicology inform	nation on the substances:				
		Identification		A	cute toxicity	Genus
	Imidazole			LD50 oral	500 mg/kg (ATEi)	
	CAS: 288-32-4 EC: 206-019-2			LD50 dermal LC50 inhalation	>2000 mg/kg	
11.2	Information on other ha				>5 mg/L	
	Other information	ies: The product does not me	eet the criteria.			
SECT	ION 12: ECOLOGICAL IN	FORMATION				
The e	perimental information relate	ed to the eco-toxicological pro	operties of the pro	duct itself is not	available	
Based For m	on available data, the classif ore information see section a <b>Toxicity:</b>	cation criteria are not met, a				or this effect.
	Not available					
12.2	Persistence and degradal	эшту:				
45.5	Not available					
12.3	Bioaccumulative potentia	1:				
	Not available					
12.4	Mobility in soil:					
	Not available					
12.5	Results of PBT and vPvB					
	Product does not meet PBT/					
12.6	Endocrine disrupting pro					
		ies: The product does not me	eet the criteria.			
12.7	Other adverse effects:					
	Not described					
		- CONTINU				

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## CZ0181 - Cellobiohydrolase 9A, Clostridium thermocellum

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Version: 2 (Replaced 1)

## 13.1 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	UN number or ID number: UN proper shipping name: Transport hazard class(es):	Non-applicable Non-applicable Non-applicable
14.5	l abels:	Non-applicable
14.4	Packing group:	Non-applicable
	Environmental hazards:	No
	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 according to IMO instruments:	Non-applicable
Transpor	t of dangerous goods by sea:	
With rega	rd to IMDG 40-20:	
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	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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### legislation

# CZ0181 - Cellobiohydrolase 9A, Clostridium thermocellum

Date of compilation:	ate of compilation: 23/06/2020 Revised: 12/1		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

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

# CZ0181 - Cellobiohydrolase 9A, Clostridium thermocellum

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 ur H319: Causes serious eye i	born child.	tion 2:
Texts of the legislative p	hrases mentioned in sec	tion 3:
The phrases indicated do no individual components which		; they are present merely for informative purposes and refer to the
CLP Regulation (EC) No Acute Tox. 4: H302 - Harm Eye Dam. 1: H318 - Causes Repr. 1B: H360D - May dan Skin Corr. 1C: H314 - Cause	ful if swallowed. s serious eye damage. nage the unborn child.	e damage.
Advice related to trainin		
	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 acron	yms:	
IMDG: International maritin IATA: International Air Tra ICAO: International Civil Av COD: Chemical Oxygen De BOD5: 5day biochemical ox BCF: Bioconcentration facto LD50: Lethal Dose 50 LC50: Lethal Concentration EC50: Effective concentration LogPOW: Octanolwater par	me dangerous goods code nsport Association ation Organisation mand ygen demand or 50 on 50 tition coefficient	al carriage of dangerous goods by road
Koc: Partition coefficient of UFI: unique formula identif IARC: International Agency	ier	

\*\* 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.