Safety data sheet legislation

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

# CZ0100 - Phospho-β-Glucosidase 4A, *Bacillus subtilis*

Date of	compilation: 23/06/20	20 Revised: 12/10/2023	Version: 2 (Replaced 1)	
SEC	TION 1: IDENTIFIC	ATION OF THE SUBSTANCE/M	IIXTURE AND OF THE COMPANY/UNDERTAKING	
1.1	Product identifier	: CZ0100 - Phospho-β-Glucosidase	e 4A, <i>Bacillus subtilis</i>	
		Glycerol		
	CAS:	56-81-5		
	EC:	200-289-5		
	Index:	Non-applicable		
	REACH:	01-2119471987-18-XXXX		
	Other means of id	entification:		
	Non-applicable			
1.2	Relevant identified	d uses of the substance or mixt	ure and uses advised against:	
	Relevant uses: Labo	ratory. For professional users only.		
	Uses advised agains	t: All uses not specified in this section	on 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 www.nzytech.com			
1.4	Emergency teleph	one number: Contact Local Poise	on Information Center or Local Emergency Number	
L				
SEC	TION 2: HAZARDS	IDENTIFICATION **		
2.1	Classification of th	he substance or mixture:		
	CLP Regulation (E	EC) No 1272/2008:		
l i				

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			Concentration
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 - <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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# 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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## SECTION 7: HANDLING AND STORAGE (continued)

Product is non-flammable under normal conditions of storage, handling and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

#### C.- Technical recommendations on general occupational hygiene

PREGNANT WOMEN SHOULD NOT BE EXPOSED TO THIS PRODUCT. Transfer in designated areas that comply with the necessary safety conditions (emergency showers and eyewash stations in close proximity), using personal protection equipment, especially on the hands and face (See section 8). Limit manual transfers to small amounts only. Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

#### Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Store in a cool, dry, well-ventilated location

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

#### 7.3 Specific end use(s):

7.2

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):

There are no applicable occupational exposure limits for the substances contained in the product

#### DNEL (Workers):

		Short e	xposure	Long ex	xposure
Identification		Systemic	Local	Systemic	Local
Imidazole	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 288-32-4	Dermal	Non-applicable	Non-applicable	1,5 mg/kg	Non-applicable
EC: 206-019-2	Inhalation	Non-applicable	Non-applicable	10,6 mg/m <sup>3</sup>	Non-applicable

## DNEL (General population):

Non-applicable

#### PNEC:

Identification				
Imidazole	STP	10 mg/L	Fresh water	0,13 mg/L
CAS: 288-32-4	Soil	0,043 mg/kg	Marine water	0,013 mg/L
EC: 206-019-2	Intermittent	1,3 mg/L	Sediment (Fresh water)	0,336 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,034 mg/kg

#### 8.2 Exposure controls:

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

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#### Date of compilation: 23/06/2020 Revised: 12/10/2023 Version: 2 (Replaced 1) SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued) PPE Labelling CEN Standard Remarks Pictogram Replace when there is a taste or smell of the Filter mask for gases and contaminant inside the face mask. If the EN 405:2002+A1:2010 contaminant comes with warnings it is vapours Mandatory recommended to use isolation equipment. respiratory tract protection C.- Specific protection for the hands Pictogram PPE Labelling **CEN Standard** Remarks Chemical protective gloves (Material: PVC, Breakthrough EN ISO 21420:2020 Replace the gloves at any sign of deterioration. time: > 480 min, Thickness: Mandatory hand 0.7 mm) protection D.- Eye and face protection PPE Labelling CEN Standard Pictogram Remarks EN 166:2002 Clean daily and disinfect periodically according to EN 167:2002 Face shield the manufacturer's instructions. Use if there is a FN 168:2002 risk of splashing. EN ISO 4007:2018 Mandatory face protection E.- Body protection Pictogram PPE Labelling **CEN** Standard Remarks EN 13034:2005+A1:2009 EN 168:2002 Disposable clothing for EN ISO 13982-For professional use only. Clean periodically 1:2004/A1:2010 protection against chemical according to the manufacturer's instructions. EN ISO 6529:2013 Mandatory complete risks EN ISO 6530:2005 body protection EN 464:1994 Safety footwear for EN ISO 20345:2011 protection against chemical Replace boots at any sign of deterioration. EN 13832-1:2019 risk Mandatory foot CAT III protection F.- Additional emergency measures Emergency measure Standards Emergency measure Standards **0**+ ANSI Z358-1 DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011 ISO 3864-1:2011, ISO 3864-4:2011 Emergency shower Eyewash stations **Environmental exposure controls:** In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D Volatile organic compounds: With regard to Directive 2010/75/EU, this product has the following characteristics: V.O.C. (Supply): 0 % weight V.O.C. density at 20 °C: 0 kg/m<sup>3</sup> (0 g/L) Average carbon number: 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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SECT	TON 9: PHYSICAL AND CHEMICAL PROPERTIES	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/m³
	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	ises:
	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	

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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.						
SECT	ION 10: STABILITY AND	REACTIVITY					
10.1	Reactivity:						
10.2	No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet. 2 Chemical stability:						
	Chemically stable under the	indicated conditions of st	orage, handling and use.				
10.3	Possibility of hazardous	reactions:					
	Under the specified condition	ons, hazardous reactions t	hat lead to excessive temp	peratures 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		
10.5	Incompatible materials:						
	Acids	Water	Oxidising materials	Combustible materials	Others		
	Avoid strong acids         Not applicable         Precaution         Not applicable         Avoid alkalis or strong bases						

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 (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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SECT	ION 11: TOXICOLOGICAL	INFORMATION (conti	inued)			
	E- Sensitizing effects:					
	<ul> <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: 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>					
	this effect. For more information see section 3. G- Specific target organ toxicity (STOT)-repeated exposure:					
	<ul> <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 see section 3.</li> <li>H- Aspiration hazard:</li> </ul>					
	this effect. For more info	the classification criteria a rmation see section 3.	re not met, as it doe	s not contain sul	bstances classified as h	azardous for
	Other information:					
	Non-applicable					
	Specific toxicology inform	ation on the substance	es:			
		Identification			Acute toxicity	Genus
	Imidazole CAS: 288-32-4			LD50 oral LD50 dermal	500 mg/kg (ATEi) >2000 mg/kg	
	EC: 206-019-2			LC50 inhalation	>5 mg/L	
	Endocrine disrupting prop		meet the criteria			
	Endocrine-disrupting properti Other information		meet the criteria.			
	Endocrine-disrupting properti		meet the criteria.			
SECT	Endocrine-disrupting properti Other information	es: The product does not	meet the criteria.			
The ex Based For m	Endocrine-disrupting properti Other information Non-applicable ION 12: ECOLOGICAL INF xperimental information related on available data, the classific ore information see section 3 Toxicity:	es: The product does not FORMATION d to the eco-toxicological cation criteria are not met	properties of the pro			or this effect.
The ex Based For m <b>12.1</b>	Endocrine-disrupting properti Other information Non-applicable ION 12: ECOLOGICAL INF xperimental information related on available data, the classific ore information see section 3 Toxicity: Not available	FORMATION d to the eco-toxicological cation criteria are not met	properties of the pro			or this effect.
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The ex Based For m <b>12.1</b> <b>12.2</b>	Endocrine-disrupting properti Other information Non-applicable ION 12: ECOLOGICAL INF xperimental information related on available data, the classifie ore information see section 3 Toxicity: Not available Persistence and degradab	The product does not FORMATION d to the eco-toxicological cation criteria are not met ility:	properties of the pro			or this effect.
The ex Based For m <b>12.1</b> <b>12.2</b>	Endocrine-disrupting properti Other information Non-applicable ION 12: ECOLOGICAL INF experimental information related on available data, the classifie ore information see section 3 Toxicity: Not available Persistence and degradab Not available	The product does not FORMATION d to the eco-toxicological cation criteria are not met ility:	properties of the pro			or this effect.
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The ex Based For m 12.1 12.2 12.3 12.4 12.5	Endocrine-disrupting properti Other information Non-applicable ION 12: ECOLOGICAL INF xperimental information related on available data, the classific ore information see section 3 Toxicity: Not available Persistence and degradab Not available Bioaccumulative potential Not available Mobility in soil: Not available Results of PBT and vPvB a Product does not meet PBT/v	es: The product does not ORMATION d to the eco-toxicological cation criteria are not met ility: l: assessment: /PvB criteria perties:	properties of the pro , as it does not conta			or this effect.
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# 13.1 Waste treatment methods:

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

SECTION 13: DISPOSAL CONSIDERATIONS

#### 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:

Limited quantities:Non-applicable14.7Maritime transport in bulk according to IMO instruments:Non-applicableTransport of dangerous goods by sea:Non-applicableWith regard to IMDG 40-20:Non-applicable14.1UN number or ID number:Non-applicable14.2UN proper shipping name:Non-applicable14.3Transport hazard class(es):Non-applicable14.4Packing group:Non-applicable14.5Marine pollutant:No14.6Special precautions for user Special regulations:Non-applicableEmS Codes:Physico-Chemical properties:see section 9Limited quantities:Non-applicable14.7Maritime transport in bulk according to IMO instruments:Non-applicable14.7Maritime transport in bulk according to IMO instruments:Non-applicable	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
According to IMO instruments:Transport of dangerous goods by sea:With regard to IMDG 40-20:14.1UN number or ID number: Non-applicable14.2UN proper shipping name: Labels:Non-applicable14.3Transport hazard class(es): Labels:Non-applicable14.4Packing group: Non-applicableNon-applicable14.5Marine pollutant: Special precautions for userNon-applicable14.6Special precautions for userNon-applicableEmS Codes: Physico-Chemical properties: Segregation group:see section 914.7Maritime transport in bulk according to IMO instruments:Non-applicable			
With regard to IMDG 40-20:14.1UN number or ID number:Non-applicable14.2UN proper shipping name:Non-applicable14.3Transport hazard class(es):Non-applicable14.4Packing group:Non-applicable14.5Marine pollutant:No14.6Special precautions for userNon-applicableSpecial regulations:Non-applicableEmS Codes:Physico-Chemical properties:see section 9Limited quantities:Non-applicablesegregation group:Non-applicable14.7Maritime transport in bulk according to IMO instruments:Non-applicable	14.7	according to IMO	Non-applicable
14.1UN number or ID number:Non-applicable14.2UN proper shipping name:Non-applicable14.3Transport hazard class(es):Non-applicable14.3Transport hazard class(es):Non-applicable14.4Packing group:Non-applicable14.5Marine pollutant:No14.6Special precautions for userSpecial regulations:Non-applicableEmS Codes:Physico-Chemical properties:see section 9Limited quantities:Non-applicableSegregation group:Non-applicable14.7Maritime transport in bulk according to IMO instruments:Non-applicable	Transpor	t of dangerous goods by sea:	
14.2UN proper shipping name:Non-applicable14.3Transport hazard class(es):Non-applicable14.4Packing group:Non-applicable14.4Packing group:Non-applicable14.5Marine pollutant:No14.6Special precautions for userSpecial regulations:Special regulations:Non-applicableEmS Codes:Physico-Chemical properties:Segregation group:Non-applicableSegregation group:Non-applicable14.7Maritime transport in bulk according to IMO instruments:Non-applicable	With rega	rd to IMDG 40-20:	
14.3Transport hazard class(es): Labels:Non-applicable Non-applicable14.4Packing group: Packing group:Non-applicable14.5Marine pollutant: Special precautions for user Special regulations:No14.6Special precautions for user Special regulations:Non-applicableEmS Codes: Physico-Chemical properties: Segregation group:see section 9 Non-applicable14.7Maritime transport in bulk 			••
14.4Packing group:Non-applicable14.5Marine pollutant:No14.6Special precautions for userSpecial regulations:Non-applicableEmS Codes:Non-applicablePhysico-Chemical properties:see section 9Limited quantities:Non-applicableSegregation group:Non-applicable14.7Maritime transport in bulk according to IMO instruments:Non-applicable		Transport hazard class(es):	Non-applicable
14.5Marine pollutant:No14.6Special precautions for userNon-applicableSpecial regulations:Non-applicableEmS Codes:Non-applicablePhysico-Chemical properties:see section 9Limited quantities:Non-applicableSegregation group:Non-applicable14.7Maritime transport in bulk according to IMO instruments:Non-applicable	14.4	2000101	
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			
EmS Codes: Physico-Chemical properties: see section 9 Limited quantities: Non-applicable Segregation group: Non-applicable 14.7 Maritime transport in bulk Non-applicable according to IMO instruments:	14.6	Special precautions for user	
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		Special regulations:	Non-applicable
Limited quantities: Non-applicable Segregation group: Non-applicable 14.7 Maritime transport in bulk according to IMO instruments: Non-applicable		EmS Codes:	
Segregation group: Non-applicable 14.7 Maritime transport in bulk Non-applicable according to IMO instruments: Non-applicable		,	
14.7 Maritime transport in bulk Non-applicable according to IMO instruments:		•	••
according to IMO instruments:			
Transport of dangerous goods by air:	14.7	according to IMO	Non-applicable
	Transpo	rt of dangerous goods by air:	

- CONTINUED ON NEXT PAGE -

to class (Pogulation (EU) No.

Safety data sheet legislation

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

# CZ0100 - Phospho-β-Glucosidase 4A, Bacillus subtilis

Date of compilation:	23/06/2020 Revised: 12/	10/2023	Version: 2 (Replaced 1)			
SECTION 14: T	SECTION 14: TRANSPORT INFORMATION (continued)					
With rega	With regard 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:

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

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

**NZYtech** 

# CZ0100 - Phospho-β-Glucosidase 4A, Bacillus subtilis

Date of compilation: 23/06/2020	Revised: 12/10/2023	Version: 2 (Replaced 1)
SECTION 16: OTHER INFORM	IATION ** (continued)	
COMMISSION REGULATION (EU) 2020/878 CLP Regulation (EC) No 1272/2008 (SECTION 2, SECTION 16): · Hazard statements		
<b>Texts of the legislative p</b> H315: Causes skin irritation H360D: May damage the ur H319: Causes serious eye i	nborn child.	tion 2:
Texts of the legislative phrases mentioned in section 3:		
The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3		
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.	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 sources:		
http://echa.europa.eu http://eur-lex.europa.eu		
Abbreviations and acronyms:		
IMDG: International maritin IATA: International Air Tra ICAO: International Civil Av COD: Chemical Oxygen De BOD5: 5day biochemical ox BCF: Bioconcentration factor LD50: Lethal Dose 50 LC50: Lethal Concentration EC50: Effective concentration LogPOW: Octanolwater par	me dangerous goods code nsport Association iation Organisation mand ygen demand or 50 on 50 tition coefficient	I 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.