

## legislation CZ0927 - β-Galactosidase 35A, Paenibacillus thiaminolyticus

ate of	compilation: 23/06	5/2020 Revised: 12/10/2023 Version: 2 (Replaced 1)				
SEC	TION 1: IDENTI	FICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING				
1.1	Product identif	fier: CZ0927 - β-Galactosidase 35A, <i>Paenibacillus thiaminolyticus</i>				
		Glycerol				
	CAS:	56-81-5				
	EC:	200-289-5				
	Index:	Non-applicable				
	REACH:	01-2119471987-18-XXXX				
	Other means o	f identification:				
	Non-applicable					
1.2	Relevant identi	ified uses of the substance or mixture and uses advised against:				
	Relevant uses: Laboratory. For professional users only.					
	Uses advised against: All uses not specified in this section or in section 7.3					
1.3	Details of the s	supplier of the safety data sheet:				
1.4	•	ephone number: Contact Local Poison Information Center or Local Emergency Number				
SEC	tion 2: Hazare	DS IDENTIFICATION **				
2.1	Classification o	of the substance or mixture:				
	CLP Regulation	n (EC) No 1272/2008:				
	Classification of	this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.				
		irritation, Category 2, H319 ductive toxicity. Category 1B, H360D				

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	(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	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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ECT	ION 7: HANDLING AND S	TORAGE (continue	ed)					
	Product is non-flammable to avoid the generation of conditions and materials C Technical recommendation	of electrostatic charged that should be avoid	ges that can a ded.	fect flammable p				
	PREGNANT WOMEN SHC necessary safety condition equipment, especially on drink during the process,	DULD NOT BE EXPOS ons (emergency show the hands and face	ED TO THIS I wers and eyev (See section 8	PRODUCT. Transi vash stations in c ). Limit manual tr	close proximity), ansfers to small	using perso	nal protection	
	D Technical recommendatio	ns to prevent enviro	nmental risks					
	It is recommended to have	e absorbent materia	Il available at o	lose proximity to	the product (See	e subsection	6.3)	
.2	Conditions for safe storage	e, including any ir	ncompatibiliti	es:				
	A Technical measures for s	torage						
	Store in a cool, dry, well-	ventilated location						
	B General conditions for st	orage						
	Avoid sources of heat, ra	diation, static electric	city and contac	t with food. For a	additional inform	ation see sub	osection 10.5	
.3	Specific end use(s):	,	,					
		ready specified it is r	not necessary i	o provide any sp	ecial recommend	lation regard	ling the uses of thi	
	Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this							
	product.							
	ION 8: EXPOSURE CONTR Control parameters: Substances whose occupatio				kplace (Europear	n OEL, not co	ountry-specific	
	TON 8: EXPOSURE CONTR Control parameters: Substances whose occupatio legislation): There are no applicable occu	nal exposure limits h	ave to be mor	itored in the wor		n OEL, not co	ountry-specific	
	ION 8: EXPOSURE CONTR Control parameters: Substances whose occupatio legislation):	nal exposure limits h	ave to be mor	itored in the worl			ountry-specific	
	TON 8: EXPOSURE CONTR Control parameters: Substances whose occupatio legislation): There are no applicable occu	nal exposure limits h pational exposure lin	ave to be mor	itored in the worl	ed in the product		ong exposure	
	TON 8: EXPOSURE CONTR Control parameters: Substances whose occupatio legislation): There are no applicable occu DNEL (Workers):	nal exposure limits h pational exposure lin	ave to be mor	itored in the worl	ed in the product	L	c Local	
ECT	ION 8: EXPOSURE CONTR Control parameters: Substances whose occupatio legislation): There are no applicable occu DNEL (Workers): Identificatio	nal exposure limits h pational exposure lin	ave to be mor nits for the sub	itored in the worl	ed in the product exposure Local	L Systemi	c Local	
	ION 8: EXPOSURE CONTR Control parameters: Substances whose occupatio legislation): There are no applicable occu DNEL (Workers): Identification Imidazole	nal exposure limits h pational exposure lin	nave to be mor nits for the sub Oral	itored in the worl pstances containe Short Systemic Non-applicable	ed in the product exposure Local Non-applicable	Systemi Non-applicabl	c Local e Non-applicable	
	ION 8: EXPOSURE CONTR Control parameters: Substances whose occupatio legislation): There are no applicable occu DNEL (Workers): Identification Imidazole CAS: 288-32-4	nal exposure limits h pational exposure lin	ave to be mor nits for the sub Oral Dermal	itored in the worl ostances containe Short Systemic Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	Systemi Non-applicabl 1,5 mg/kg	c Local e Non-applicable Non-applicable	
	TON 8: EXPOSURE CONTR Control parameters: Substances whose occupatio legislation): There are no applicable occu DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2	nal exposure limits h pational exposure lin	ave to be mor nits for the sub Oral Dermal	itored in the worl ostances containe Short Systemic Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	Systemi Non-applicabl 1,5 mg/kg	c Local e Non-applicable Non-applicable	
	ION 8: EXPOSURE CONTR Control parameters: Substances whose occupatio legislation): There are no applicable occu DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population	nal exposure limits h pational exposure lin	ave to be mor nits for the sub Oral Dermal	itored in the worl ostances containe Short Systemic Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	Systemi Non-applicabl 1,5 mg/kg	c Local e Non-applicable Non-applicable	
	ION 8: EXPOSURE CONTR         Control parameters:         Substances whose occupatio         legislation):         There are no applicable occu         DNEL (Workers):         Identification         Imidazole         CAS: 288-32-4         EC: 206-019-2         DNEL (General population         Non-applicable	nal exposure limits h pational exposure lin	ave to be mor nits for the sub Oral Dermal	itored in the worl ostances containe Short Systemic Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	Systemi Non-applicabl 1,5 mg/kg	c Local e Non-applicable Non-applicable	
	ION 8: EXPOSURE CONTR Control parameters: Substances whose occupatio legislation): There are no applicable occu DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population Non-applicable PNEC:	nal exposure limits h pational exposure lin	ave to be mor nits for the sub Oral Dermal	itored in the worl ostances containe Short Systemic Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	Systemi Non-applicabl 1,5 mg/kg	c Local e Non-applicable Non-applicable	
	ION 8: EXPOSURE CONTR Control parameters: Substances whose occupatio legislation): There are no applicable occu DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population Non-applicable PNEC: Identification	nal exposure limits h pational exposure lin	oral Oral Inhalation	itored in the worl ostances containe Short Systemic Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	Systemi Non-applicabl 1,5 mg/kg	c Local e Non-applicable Non-applicable Non-applicable	
	ION 8: EXPOSURE CONTR         Control parameters:         Substances whose occupatio         legislation):         There are no applicable occu         DNEL (Workers):         Identification         Imidazole         CAS: 288-32-4         EC: 206-019-2         DNEL (General population         Non-applicable         PNEC:         Identification         Imidazole	nal exposure limits h pational exposure lin	Oral Oral Inhalation	itored in the worl ostances containe Short Non-applicable Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable Fresh water	I Systemi Non-applicabl 1,5 mg/kg 10,6 mg/m <sup>3</sup>	c     Local       e     Non-applicable       Non-applicable     Non-applicable       0,13 mg/L	
	ION 8: EXPOSURE CONTR         Control parameters:         Substances whose occupatiolegislation):         There are no applicable occu         DNEL (Workers):         Identification         Imidazole         CAS: 288-32-4         EC: 206-019-2         DNEL (General population         Non-applicable         PNEC:         Imidazole         CAS: 288-32-4         EC: 00-019-2	nal exposure limits h pational exposure lin	Oral Oral Dermal Inhalation STP Soil	itored in the worl ostances containe Short Non-applicable Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable Non-applicable	L Systemi Non-applicabl 1,5 mg/kg 10,6 mg/m <sup>3</sup>	Local       e     Non-applicable       Non-applicable       Non-applicable       0,13 mg/L	
.1	ION 8: EXPOSURE CONTR Control parameters: Substances whose occupatio legislation): There are no applicable occu DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population Non-applicable PNEC: Identification Inidazole CAS: 288-32-4	nal exposure limits h pational exposure lin	Oral Oral Dermal Inhalation STP Soil Intermittent	itored in the worl ostances containe Short Non-applicable Non-applicable Non-applicable 10 mg/L 0,043 mg/kg 1,3 mg/L	ed in the product exposure Local Non-applicable Non-applicable Non-applicable Fresh water Fresh water Sediment (Fresh	L Systemi Non-applicabl 1,5 mg/kg 10,6 mg/m <sup>3</sup>	Local       e     Non-applicable       Non-applicable       Non-applicable       0,13 mg/L       0,336 mg/kg	
	ION 8: EXPOSURE CONTR         Control parameters:         Substances whose occupatiolegislation):         There are no applicable occu         DNEL (Workers):         Identification         Imidazole         CAS: 288-32-4         EC: 206-019-2         DNEL (General population         Non-applicable         PNEC:         Imidazole         CAS: 288-32-4         EC: 00-019-2	nal exposure limits h pational exposure lin	Oral Dermal Inhalation STP Soil Intermittent Oral	itored in the worl ostances containe Short Non-applicable Non-applicable Non-applicable 10 mg/L 0,043 mg/kg 1,3 mg/L Non-applicable	ed in the product exposure Local Non-applicable Non-applicable Non-applicable Fresh water Fresh water Sediment (Fresh	L Systemi Non-applicabl 1,5 mg/kg 10,6 mg/m <sup>3</sup>	Local       e     Non-applicable       Non-applicable       Non-applicable       0,13 mg/L       0,336 mg/kg	

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101	O. EXPOSURE	CONTROLS/PERSONA	L PROTECTI	ON (continued)		
	Pictogram	PPE	Labelling	CEN Standard		Remarks
	Mandatory respiratory tract protection	Filter mask for gases and vapours		EN 405:2002+A1:201	0 0	place when there is a taste or smell of the ontaminant inside the face mask. If the contaminant comes with warnings it is acommended to use isolation equipment
C	Specific protectio	n for the hands				
	Pictogram	PPE	Labelling	CEN Standard		Remarks
	Mandatory hand protection	Chemical protective gloves (Material: PVC, Breakthrough time: > 480 min, Thickness: 0.7 mm)	CAT III	EN ISO 21420:2020	Rep	lace the gloves at any sign of deteriorati
D	Eye and face prot	ection				
	Pictogram	PPE	Labelling	CEN Standard		Remarks
	Mandatory face protection	Face shield	CAT II	EN 166:2002 EN 167:2002 EN 168:2002 EN ISO 4007:2018		n daily and disinfect periodically accordir nanufacturer´s instructions. Use if there risk of splashing.
E	Body protection					
	Pictogram	PPE	Labelling	CEN Standard		Remarks
	Mandatory complete body protection	Disposable clothing for protection against chemical risks		EN 13034:2005+A1:20 EN 168:2002 EN ISO 13982- 1:2004/A1:2010 EN ISO 6529:2013 EN ISO 6530:2005 EN 464:1994	Fo	r professional use only. Clean periodical ording to the manufacturer's instruction
	Mandatory foot protection	Safety footwear for protection against chemical risk		EN ISO 20345:2011 EN 13832-1:2019	R	eplace boots at any sign of deterioration
F	Additional emerge	ency measures				
	Emergency me	asure St	andards	Emergency i	measure	Standards
	Emergency sho	ISO 3864-1:20	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:201		ations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:201
Env	vironmental exp	osure controls:				
spil <b>Vol</b> Wit	lage of both the p latile organic co	oroduct and its container. mpounds: ive 2010/75/EU, this prod 0 % v	For additional	information see sub	section 7.1	nmended to avoid environmental .D
	Average carbon r	number: Non-a	pplicable			
	Average molecula	r woight: Non -	pplicable			

# 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: 12/10/2023	Version: 2 (Replaced 1)
SECT	FION 9: PHYSICAL AND CHEMICAL PROPERTIES	G (continued)
	For complete information see the product datasheet.	
	Appearance:	
	Physical state at 20 ºC:	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:	
	Median equivalent diameter:	Non-applicable
9.2	Other information:	
	Information with regard to physical hazard class	ses:
	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 infor	mation property of its nazarus.

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SECT	TION 9: PHYSICAL AND (	CHEMICAL PROPERTIE	ES (continued)					
	Refraction index: Non-applicable *							
	*Not relevant due to the nature of the product, not providing information property of its hazards.							
SECT								
	SECTION 10: STABILITY AND REACTIVITY							
10.1	Reactivity:							
40.0	No hazardous reactions are Safety Data Sheet.	expected because the pr	oduct is stable under recor	nmended storage condit	ions. See section 7 from			
10.2	Chemical stability:							
	Chemically stable under the	e indicated conditions of s	torage, handling and use.					
10.3	Possibility of hazardous	reactions:						
	Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.							
10.4	Conditions to avoid:							
	Applicable for handling and	storage at room tempera	iture:					
	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			
10.6	Hazardous decompositio	on products:						
	See subsection 10.3, 10.4 a complex mixtures of chemic							

## 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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## CZ0927 - β-Galactosidase 35A, Paenibacillus thiaminolyticus

SECTION 11: TOXICOLOGICAL INFORMATION (continued)         E- Sensitizing effects:         • Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified hazardous with sensitising effects. For more information see section 3.         • 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.         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 this effect. For more information see section 3.         G- Specific target organ toxicity (STOT)-repeated exposure:         • Specific target organ toxicity (STOT)-repeated exposure:         • 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.         G- Specific target organ toxicity (STOT)-repeated exposure:         • 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.         • Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous this effect. For more information see section 3.         H- Aspiration hazard:         Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous this ef	s for net, as
<ul> <li>E- Sensitizing effects:         <ul> <li>Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classific 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> </ul> </li> <li>F- Specific target organ toxicity (STOT) - single exposure:         <ul> <li>Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous this effect. For more information see section 3.</li> </ul> </li> <li>G- Specific target organ toxicity (STOT)-repeated exposure:         <ul> <li>Specific target organ toxicity (STOT)-repeated exposure:</li> <li>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 see section 3.</li> <li>Asin: 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>Aspiration hazard:</li> <li>Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous this effect. For more information see section 3.</li> </ul> </li> <li>H- Aspiration hazard:         <ul> <li>Based on available data, the classif</li></ul></li></ul>	s for net, as s for
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Specific toxicology information on the substances:         Identification       Acute toxicity       Get	enus
Identification Acute toxicity Ge	enus
	enus
Imidazole LD50 oral 500 mg/kg (ATEi)	
CAS: 288-32-4 LD50 dermal >2000 mg/kg	
EC: 206-019-2 LC50 inhalation >5 mg/L	
Endocrine-disrupting properties: The product does not meet the criteria. Other information Non-applicable	
SECTION 12: ECOLOGICAL INFORMATION	
The experimental information related to the eco-toxicological properties of the product itself is not available	
Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this efformore information see section 3.	fect.
12.1 Toxicity:	
Not available	
12.2 Persistence and degradability:	
Not available	
12.3 Bioaccumulative potential:	
Not available	
12.4 Mobility in soil:	
Not available	
12.5 Results of PBT and vPvB assessment:	
Product does not meet PBT/vPvB criteria	
12.6 Endocrine disrupting properties:	
Endocrine-disrupting properties: The product does not meet the criteria.	
12.7 Other adverse effects:	
Not described	
- CONTINUED ON NEXT PAGE -	

- CONTINUED ON NEXT

Revised: 12/10/2023



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

legislation

## CZ0927 - β-Galactosidase 35A, Paenibacillus thiaminolyticus

Date of compilation: 23/06/2020

Revised: 12/10/2023

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:	Non-applicable Non-applicable
14.3	Transport hazard class(es):	Non-applicable
14.4	Packing group:	Non-applicable Non-applicable
	Environmental hazards:	Non-applicable
	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

# CZ0927 - β-Galactosidase 35A, Paenibacillus thiaminolyticus

	SECTION 14: TRANSPORT INFORMATION (continued) With regard to IATA/ICAO 2023:					
14.2 14.3	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         14.4       Packing group:       Non-applicable         14.5       Environmental hazards:       No					
14.6	<b>Special precautions for user</b> Physico-Chemical properties:	see section 9				
14.7	Maritime transport in bulk according to IMO instruments:	Non-applicable				
SECTION 15: REGULATORY INFORMATION						

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 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

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

## CZ0927 - β-Galactosidase 35A, Paenibacillus thiaminolyticus

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.	ction 2:					
Texts of the legislative p	hrases mentioned in sec	ction 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. hage 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:						
ADR: European agreement IMDG: International maritin IATA: International Air Tra ICAO: International Civil Av COD: Chemical Oxygen De BOD5: 5day biochemical ox	ne dangerous goods code nsport Association ation Organisation mand	al carriage of dangerous goods by road					
BCF: Bioconcentration factor LD50: Lethal Dose 50 LC50: Lethal Concentration EC50: Effective concentration	50						
LogPOW: Octanolwater par Koc: Partition coefficient of UFI: unique formula identif IARC: International Agency	organic carbon 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.