Safety data sheet legislation

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

CZ0697 - Pectin lyase 1A, Bacillus subtilis

Date of	compilation: 23/06/202	20 Revised: 12/10/2023 Vers	ion: 2 (Replaced 1)
SECT	TION 1: IDENTIFICA	ATION OF THE SUBSTANCE/MIXTURE	AND OF THE COMPANY/UNDERTAKING
1.1	Product identifier:	CZ0697 - Pectin Iyase 1A, Bacillus subtilis	
		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	uses of the substance or mixture and	uses advised against:
	Relevant uses: Labor	atory. For professional users only.	
	Uses advised against	: All uses not specified in this section or in se	ection 7.3
1.3	Details of the supp	lier 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		one number: Contact Local Poison Informa	ation Center or Local Emergency Number
SECT	TION 2: HAZARDS I	DENTIFICATION **	
2.1	Classification of th	e substance or mixture:	
	CLD Degulation (E	C) No 1272 (2000)	

CLP Regulation (EC) No 1272/2008:

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

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

Label elements: 2.2

CLP Regulation (EC) No 1272/2008:

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

Danger



Hazard statements:

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

Precautionary statements:

P201: Obtain special instructions before use.

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

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

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

Substances that contribute to the classification

Imidazole (CAS: 288-32-4)

Additional Labelling:

Restricted to professional users

2.3 **Other hazards:**

** Changes with regards to the previous version

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SECTION 2: HAZARDS IDENTIFICATION ** (continued)

Product does not meet PBT/vPvB criteria

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

Revised: 12/10/2023

** Changes with regards to the previous version

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Chemical description: Mixture of substances

Components:

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

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

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

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

3.2 Mixture:

Non-applicable

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

Identification	Acu	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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SECI	FION 7: HANDLING AND STORAGE	(continued)						
			na handlina and					
	Product is non-flammable under nor to avoid the generation of electrost conditions and materials that should	atic charges that can a						
	C Technical recommendations on general occupational hygiene							
	PREGNANT WOMEN SHOULD NOT I			fer in designate	d areas that co	mply with the		
	necessary safety conditions (emerg equipment, especially on the hands drink during the process, washing h D Technical recommendations to preve	ency showers and eyev and face (See section 8 hands afterwards with s	wash stations in c). Limit manual tr	close proximity), ransfers to small	using persona	l protection		
			cloco provimity to	the product (Se	o subsortion 6	2)		
, ,	It is recommended to have absorber			the product (Se	e subsection 6.	3)		
7.2	Conditions for safe storage, includin	ng any incompatibiliti	les:					
	A Technical measures for storage							
	Store in a cool, dry, well-ventilated le	ocation						
	B General conditions for storage							
	Avoid sources of heat, radiation, sta	tic electricity and contac	ct with food. For a	additional inform	ation see subse	ection 10.5		
7.3	Specific end use(s):							
	Except for the instructions already speci product.	fied it is not necessary	to provide any sp	ecial recommen	dation regardin	g the uses of this		
SECT	FION 8: EXPOSURE CONTROLS/PER	SONAL PROTECTION	N					
	Control parameters: Substances whose occupational exposulegislation):			kplace (Europea	n OEL, not cou	ntry-specific		
	Control parameters: Substances whose occupational exposu- legislation): There are no applicable occupational ex	re limits have to be mor	nitored in the wor			ntry-specific		
	Control parameters: Substances whose occupational exposulegislation):	re limits have to be mor	nitored in the wor		:	ntry-specific		
	Control parameters: Substances whose occupational exposu- legislation): There are no applicable occupational ex	re limits have to be mor	hitored in the wor bstances containe Short	ed in the product	:			
	Control parameters: Substances whose occupational exposur legislation): There are no applicable occupational ex DNEL (Workers): Identification	re limits have to be mor	nitored in the wor ostances containe Short Systemic	ed in the product exposure Local	Lon	ig exposure		
	Control parameters: Substances whose occupational exposu- legislation): There are no applicable occupational ex DNEL (Workers):	re limits have to be mor posure limits for the sul	hitored in the wor bstances containe Short	ed in the product	Lon	ig exposure		
	Control parameters: Substances whose occupational exposur legislation): There are no applicable occupational ex DNEL (Workers): Identification Imidazole	re limits have to be mor posure limits for the sul Oral	nitored in the wor ostances containe Short Systemic Non-applicable	ed in the product exposure Local Non-applicable	Lon Systemic Non-applicable	g exposure Local Non-applicable		
	Control parameters: Substances whose occupational exposure legislation): There are no applicable occupational exe DNEL (Workers): Identification Imidazole CAS: 288-32-4	re limits have to be mor posure limits for the sul Oral Dermal	hitored in the wor bstances containe Short Systemic Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	Lon Systemic Non-applicable 1,5 mg/kg	g exposure Local Non-applicable Non-applicable		
	Control parameters: Substances whose occupational exposur legislation): There are no applicable occupational ex DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population):	re limits have to be mor posure limits for the sul Oral Dermal	hitored in the wor bstances containe Short Systemic Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	Lon Systemic Non-applicable 1,5 mg/kg	g exposure Local Non-applicable Non-applicable		
	Control parameters: Substances whose occupational exposure legislation): There are no applicable occupational exe DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population): Non-applicable	re limits have to be mor posure limits for the sul Oral Dermal	hitored in the wor bstances containe Short Systemic Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	Lon Systemic Non-applicable 1,5 mg/kg	g exposure Local Non-applicable Non-applicable		
	Control parameters: Substances whose occupational exposure legislation): There are no applicable occupational ex- DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population): Non-applicable PNEC:	re limits have to be mor posure limits for the sul Oral Dermal	hitored in the wor bstances containe Short Systemic Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	Lon Systemic Non-applicable 1,5 mg/kg	g exposure Local Non-applicable Non-applicable		
	Control parameters: Substances whose occupational exposur legislation): There are no applicable occupational ex DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population): Non-applicable PNEC: Identification	re limits have to be mor posure limits for the sul Oral Dermal Inhalation	hitored in the wor ostances containe Short Non-applicable Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	Lon Systemic Non-applicable 1,5 mg/kg 10,6 mg/m ³	g exposure Local Non-applicable Non-applicable Non-applicable		
	Control parameters: Substances whose occupational exposur legislation): There are no applicable occupational ex DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population): Non-applicable PNEC: Identification Imidazole	re limits have to be mor posure limits for the sul Oral Dermal Inhalation	hitored in the wor bstances containe Short Non-applicable Non-applicable Non-applicable 10 mg/L	ed in the product exposure Local Non-applicable Non-applicable Fresh water	Lon Systemic Non-applicable 1,5 mg/kg 10,6 mg/m ³	g exposure Local Non-applicable Non-applicable Non-applicable		
	Control parameters: Substances whose occupational exposur legislation): There are no applicable occupational ex DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population): Non-applicable PNEC: Identification	re limits have to be mor posure limits for the sul Oral Dermal Inhalation	hitored in the wor ostances containe Short Non-applicable Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	Lon Systemic Non-applicable 1,5 mg/kg 10,6 mg/m ³	g exposure Local Non-applicable Non-applicable Non-applicable		
	Control parameters: Substances whose occupational exposur legislation): There are no applicable occupational ex DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population): Non-applicable PNEC: Identification Imidazole CAS: 288-32-4	re limits have to be mor posure limits for the sul Oral Dermal Inhalation STP Soil	hitored in the wor bstances containe Short Non-applicable Non-applicable Non-applicable 10 mg/L 0,043 mg/kg	ed in the product exposure Local Non-applicable Non-applicable Fresh water Marine water	Lon Systemic Non-applicable 1,5 mg/kg 10,6 mg/m ³	Ig exposure Local Non-applicable Non-applicable Non-applicable 0,13 mg/L 0,013 mg/L		
3.1	Control parameters: Substances whose occupational exposur legislation): There are no applicable occupational ex DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population): Non-applicable PNEC: Identification Imidazole CAS: 288-32-4	re limits have to be mor posure limits for the sul Oral Dermal Inhalation STP Soil Intermittent	hitored in the wor bostances 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 Marine water Sediment (Fresh	Lon Systemic Non-applicable 1,5 mg/kg 10,6 mg/m ³	Ig exposure Local Non-applicable Non-applicable Non-applicable 0,13 mg/L 0,013 mg/L 0,336 mg/kg		
3.1	Control parameters: Substances whose occupational exposur legislation): There are no applicable occupational ex DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population): Non-applicable PNEC: Identification Imidazole CAS: 288-32-4 EC: 206-019-2	re limits have to be mor posure limits for the sul Oral Dermal Inhalation STP Soil Intermittent Oral	hitored in the wor bstances 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 Marine water Sediment (Fresh	Lon Systemic Non-applicable 1,5 mg/kg 10,6 mg/m ³	Ig exposure Local Non-applicable Non-applicable Non-applicable 0,13 mg/L 0,013 mg/L 0,336 mg/kg		
3.1	Control parameters: Substances whose occupational exposure legislation): There are no applicable occupational ex- DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population): Non-applicable PNEC: Identification Imidazole CAS: 288-32-4 EC: 206-019-2 Exposure controls:	re limits have to be mor posure limits for the sul Oral Dermal Inhalation STP Soil Intermittent Oral oral oral oral oral oral oral oral o	hitored in the wor bstances containe Short Non-applicable Non-applicable Non-applicable Non-applicable 10 mg/L 0,043 mg/kg 1,3 mg/L Non-applicable equipment Personal Protect For more informat	ed in the product exposure Local Non-applicable Non-applicable Non-applicable Non-applicable Fresh water Marine water Sediment (Fresh Sediment (Marin ive Equipment, fition on Personal eaflet provided	Lon Systemic Non-applicable 1,5 mg/kg 10,6 mg/m ³	g exposure Local Non-applicable Non-applicable Non-applicable 0,13 mg/L 0,013 mg/L 0,034 mg/kg 0,034 mg/kg ponding < <ce ipment (storage, cturer. For more</ce 		

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FION		CONTROLS/PERSONA				
	Pictogram	PPE	Labelling	CEN Standard		Remarks
	Mandatory respiratory tract protection	Filter mask for gases and vapours	CAT III	EN 405:2002+A1:2010	c	place when there is a taste or smell of the ontaminant inside the face mask. If the contaminant comes with warnings it is commended to use isolation equipment.
C	Specific protection	n for the hands				
	Pictogram	PPE	Labelling	CEN Standard		Remarks
	Mandatory hand protection	Chemical protective gloves (Material: PVC, Breakthrough time: > 480 min, Thickness: 0.7 mm)	CAT III	EN ISO 21420:2020	Rep	lace the gloves at any sign of deterioratio
D	Eye and face prot	ection				
	Pictogram	PPE	Labelling	CEN Standard		Remarks
	Mandatory face protection	Face shield	CAT II	EN 166:2002 EN 167:2002 EN 168:2002 EN ISO 4007:2018		n daily and disinfect periodically according nanufacturer 's instructions. Use if there i risk of splashing.
E	Body protection		1			
	Pictogram	PPE	Labelling	CEN Standard		Remarks
	Mandatory complete body protection	Disposable clothing for protection against chemical risks	CAT III	EN 13034:2005+A1:2009 EN 168:2002 EN ISO 13982- 1:2004/A1:2010 EN ISO 6529:2013 EN ISO 6530:2005 EN 464:1994		r professional use only. Clean periodically ording to the manufacturer's instructions
	Mandatory foot protection	Safety footwear for protection against chemical risk	CAT III	EN ISO 20345:2011 EN 13832-1:2019	R	eplace boots at any sign of deterioration.
F	Additional emerge	ency measures				
	Emergency mea	asure St	tandards	Emergency meas	ure	Standards
	Emergency sho	ISO 3864-1:20	SI Z358-1 111, ISO 3864-4:201	1 Eyewash statio	ns	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
Env	/ironmental exp	osure controls:				
In a spil	accordance with th	e community legislation roduct and its container.				nmended to avoid environmental .D
Wit	h regard to Directi	ve 2010/75/EU, this proc	duct has the follo	wing characteristics:		
	V.O.C. (Supply):	0 % \	weight			
	V.O.C. density at	20 °C: 0 kg/	m³ (0 g/L)			
	Average carbon n	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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SECTION	N 9: PHYSICAL AND CHEMICAL PROPERTIES	(continued)
Fo	r complete information see the product datasheet.	
Ap	ppearance:	
Ph	ysical state at 20 ºC:	Liquid
Ap	pearance:	Not available
Co	lour:	Colourless
Oc	lour:	Odourless
Oc	lour threshold:	Non-applicable *
Vo	latility:	
Во	iling point at atmospheric pressure:	Non-applicable *
Va	pour pressure at 20 ºC:	Non-applicable *
Va	pour pressure at 50 °C:	Non-applicable *
Ev	aporation rate at 20 °C:	Non-applicable *
Pr	oduct description:	
De	nsity at 20 ºC:	1110,8 kg/m ³
Re	lative density at 20 °C:	1,111
Dy	namic viscosity at 20 ºC:	Non-applicable *
Kir	nematic viscosity at 20 ºC:	Non-applicable *
Kir	nematic viscosity at 40 °C:	Non-applicable *
Co	ncentration:	Non-applicable *
pН	:	7,2
Va	pour density at 20 °C:	Non-applicable *
Pa	rtition coefficient n-octanol/water 20 °C:	Non-applicable *
So	lubility in water at 20 ºC:	Non-applicable *
So	lubility properties:	Non-applicable *
De	composition temperature:	Non-applicable *
Me	lting point/freezing point:	Non-applicable *
Fla	ammability:	
Fla	ash Point:	Non Flammable (>60 °C)
Fla	mmability (solid, gas):	Non-applicable *
Au	toignition temperature:	480 °C
Lo	wer flammability limit:	Non-applicable *
Up	per flammability limit:	Non-applicable *
Pa	rticle characteristics:	
Me	edian equivalent diameter:	Non-applicable
9.2 Ot	her information:	
In	formation with regard to physical hazard class	es:
Ex	plosive properties:	Non-applicable *
Ox	idising properties:	Non-applicable *
Co	rrosive to metals:	Non-applicable *
He	at of combustion:	Non-applicable *
CO	rosols-total percentage (by mass) of flammable mponents: . her safety characteristics:	Non-applicable *
	rface tension at 20 °C:	Non-applicable *
	ot relevant due to the nature of the product, not providing inform	Non-applicable *

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Date of compilation: 23/06/202	te of compilation: 23/06/2020 Revised: 12/10/2023 Version: 2 (Replaced 1)						
SECTION 9: PHYSICAL	AND CHEMICAL PROPERTIE	ES (continued)					
Refraction index:	Refraction index: Non-applicable *						
*Not relevant due to the	*Not relevant due to the nature of the product, not providing information property of its hazards.						
SECTION 10: STABILIT	Y AND REACTIVITY						
10.1 Reactivity:							
No hazardous reaction Safety Data Sheet. 10.2 Chemical stability:	,						
Chemically stable un	der the indicated conditions of s	torage, handling and use.					
10.3 Possibility of haza	rdous reactions:						
Under the specified of	conditions, hazardous reactions	that lead to excessive temp	peratures or pressure are n	ot expected.			
10.4 Conditions to avoi	10.4 Conditions to avoid:						
Applicable for handli	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 mat	erials:						
Acids	Water	Oxidising materials	Combustible materials	Others			

10.6 Hazardous decomposition products:

Avoid strong acids

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

Precaution

SECTION 11: TOXICOLOGICAL INFORMATION

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

Not applicable

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.

- CONTINUED ON NEXT PAGE -

Avoid alkalis or strong bases

Not applicable



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	• • •		Version: 2 (Re				
ECT.	ION 11: TOXICOLOGICA	L INFORMATION (contir	nued)				
	E- Sensitizing effects:						
	hazardous with sensitis - Skin: Based on availa	n available data, the classific ng effects. For more inform ble data, the classification c t. For more information see iicity (STOT) - single exposu	nation see section 3 criteria are not met, e section 3.	3.			
 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: 					azardous for		
	G- Specific target organ to	icity (SIOI)-repeated expos	sure:				
	 Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, a 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 for this effect. For more information see section 3. H- Aspiration hazard: 						
	Based on available data this effect. For more inf Other information:	the classification criteria ar ormation see section 3.	re not met, as it doe	es not contain sub	stances classified as ha	azardous for	
	Non-applicable						
	Specific toxicology infor	nation on the substances	5:				
		Identification		۵	cute toxicity	Genus	
	Imidazole	Identification		LD50 oral	500 mg/kg (ATEi)	Genus	
	CAS: 288-32-4			LD50 dermal	>2000 mg/kg		
	EC: 206-019-2			LC50 inhalation	>5 mg/L		
	Endocrine disrupting pro	perties					
	Endocrine-disrupting proper	•	meet the criteria.				
	Endocrine-disrupting proper Other information	•	meet the criteria.				
	Endocrine-disrupting proper Other information Non-applicable	ties: The product does not r	meet the criteria.				
The e> Based ⁼or mo	Endocrine-disrupting proper Other information Non-applicable ION 12: ECOLOGICAL IN experimental information relat on available data, the classif ore information see section Toxicity:	ties: The product does not r FORMATION ed to the eco-toxicological p ication criteria are not met,	properties of the pro			r this effect.	
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legislation

CZ0697 - Pectin Iyase 1A, Bacillus subtilis

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

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23/06/2020 Revised: 1	12/10/2023	Version: 2 (Replaced 1)		
RANSPORT INFORMATION	I (continued)			
With regard to IATA/ICAO 2023:				
UN number or ID number	Non-applicable			
UN proper shipping name	: Non-applicable			
Transport hazard class(es)	: Non-applicable			
Labels:	Non-applicable			
Packing group:	Non-applicable	2		
Environmental hazards:	No			
Special precautions for use	er			
Physico-Chemical properties:	see section 9			
Maritime transport in bulk according to IMO instruments:	Non-applicable			
	RANSPORT INFORMATION and to IATA/ICAO 2023: UN number or ID number UN proper shipping name Transport hazard class(es) Labels: Packing group: Environmental hazards: Special precautions for use Physico-Chemical properties: Maritime transport in bulk according to IMO	RANSPORT INFORMATION (continued)ard to IATA/ICAO 2023:Non-applicableUN number or ID number: UN proper shipping name: Transport hazard class(es): Labels:Non-applicableTransport hazard class(es): Labels:Non-applicablePacking group: Environmental hazards: Special precautions for userNon-applicablePhysico-Chemical properties: Maritime transport in bulk according to IMOSee section 9		

SECTION 15: REGULATORY INFORMATION

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

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

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

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

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

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

Seveso III:

Non-applicable

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

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

Shall not be used in:

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

tricks and jokes,

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

Specific provisions in terms of protecting people or the environment:

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

Other legislation:

The product could be affected by sectorial legislation

15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

SECTION 16: OTHER INFORMATION **

Legislation related to safety data sheets:

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

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

** Changes with regards to the previous version

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CZ0697 - Pectin Iyase 1A, Bacillus subtilis

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 - Harmf Eye Dam. 1: H318 - Causes Repr. 1B: H360D - May dam	ul if swallowed. serious eye damage.	
Skin Corr. 1C: H314 - Cause		e damage.
Advice related to training		5
Training is recommended in interpretation of this safety		risks for staff using this product and to facilitate their comprehension and label on the product.
Principal bibliographical	sources:	
http://echa.europa.eu http://eur-lex.europa.eu		
Abbreviations and acrony	/ms:	
IMDG: International maritir IATA: International Air Tra	ne dangerous goods code nsport Association	Il carriage of dangerous goods by road
ICAO: International Civil Avi COD: Chemical Oxygen Der BOD5: 5day biochemical oxy	nand /gen demand	
BCF: Bioconcentration factor LD50: Lethal Dose 50 LC50: Lethal Concentration	-	
EC50: Effective concentration LogPOW: Octanolwater part	n 50 tition coefficient	
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.