

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

CZ0688 - Polygalacturonase 28A, Thermotoga maritima

Date of	compilation: 23/06/202	0 Revised: 12/10/2023 Version: 2 (Replaced 1)
SEC	TION 1: IDENTIFICA	TION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1	Product identifier:	CZ0688 - Polygalacturonase 28A, Thermotoga maritima
		Glycerol
	CAS:	56-81-5
	EC:	200-289-5
	Index:	Non-applicable
	REACH:	01-2119471987-18-XXXX
	Other means of ide	intification:
	Non-applicable	
1.2	Relevant identified	uses of the substance or mixture and uses advised against:
	Relevant uses: Labora	atory. For professional users only.
	Uses advised against	: All uses not specified in this section or in section 7.3
1.3	Details of the supp	lier of the safety data sheet:
	NZYTech Estrada do Paco do Li 1649-038 Lisboa - Lis info@nzytech.com www.nzytech.com	umiar Campus do Lumiar - Edif. E, r/c sboa - Portugal
1.4	Emergency telepho	one number: Contact Local Poison Information Center or Local Emergency Number
SEC	TION 2: HAZARDS I	DENTIFICATION **
2.1	Classification of th	e substance or mixture:
	CLP Regulation (F	C) No 1272/2008

CLP Regulation (EC) No 1272/2008:

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

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

2.2 Label elements:

CLP Regulation (EC) No 1272/2008:

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

Danger



Hazard statements:

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

Precautionary statements:

P201: Obtain special instructions before use.

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

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

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

Substances that contribute to the classification

Imidazole (CAS: 288-32-4)

Additional Labelling:

Restricted to professional users

2.3 Other hazards:

** Changes with regards to the previous version

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Version: 2 (Replaced 1)

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

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

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

3.2 Mixture:

Non-applicable

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

Identification	Acu	te toxicity	Genus
Imidazole	LD50 oral	500 mg/kg (ATEi)	
CAS: 288-32-4	LD50 dermal	Non-applicable	
EC: 206-019-2	LC50 inhalation	Non-applicable	

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

This product does not contain substances classified as hazardous for inhalation, however, in case of symptoms of intoxication remove the person affected from the exposure area and provide with fresh air. Seek medical attention if the symptoms get worse or persist.

By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By 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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Revised: 12/10/2023

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

	C							
ofo	compilation: 23/06/2020	Revised: 12/10/	2023 V	ersion: 2 (Replace	ed 1)			
ECT	TON 7: HANDLING AND	STORAGE (contin	nued)					
	Product is non-flammal to avoid the generation conditions and materia C Technical recommenda	n of electrostatic cha Is that should be av	arges that can a oided.	iffect flammable p				
	PREGNANT WOMEN SH necessary safety condi equipment, especially o drink during the proces D Technical recommendat	HOULD NOT BE EXP tions (emergency sh on the hands and fac ss, washing hands a	OSED TO THIS nowers and eye te (See section 8 fterwards with	PRODUCT. Trans wash stations in o 3). Limit manual ti	close proximity), ransfers to small	using persor	nal prote	ection
	It is recommended to h	ave absorbent mate	rial available at	close proximity to	the product (Se	e subsection	6.3)	
.2	Conditions for safe store		incompatibilit	ies:				
	A Technical measures for	storage						
	Store in a cool, dry, we	II-ventilated location						
	B General conditions for	storage						
	Avoid sources of heat,	radiation, static elect	tricity and conta	ct with food. For	additional inform	nation see sub	section	10.5
3	Specific end use(s):		Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection .3 Specific end use(s):					
Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of product.								
	ION 8: EXPOSURE CON Control parameters:	TROLS/PERSONAI	_ PROTECTIO	N				_
	ION 8: EXPOSURE CON	TROLS/PERSONAI	PROTECTIO	N nitored in the wor	kplace (Europea	n OEL, not co		_
	TON 8: EXPOSURE CON Control parameters: Substances whose occupat legislation):	TROLS/PERSONAI	PROTECTIO	N nitored in the wor bstances containe	kplace (Europea ed in the product	n OEL, not co	untry-s	pecific
	product. TON 8: EXPOSURE CON Control parameters: Substances whose occupat legislation): There are no applicable occ DNEL (Workers):	TROLS/PERSONAI	PROTECTIO	N nitored in the wor bstances containe Short	kplace (Europea ed in the product	n OEL, not co	ong expos	pecific
ECT	product. TION 8: EXPOSURE CON Control parameters: Substances whose occupat legislation): There are no applicable occ DNEL (Workers): Identifica	TROLS/PERSONAI	PROTECTIO	N nitored in the wor bstances containe Short	kplace (Europea ed in the product exposure	n OEL, not co	ong expos	pecific sure Local
	product. TION 8: EXPOSURE CON Control parameters: Substances whose occupat legislation): There are no applicable occ DNEL (Workers): Identifica Imidazole	TROLS/PERSONAI	PROTECTIO	N nitored in the wor bstances containe Short Systemic Non-applicable	kplace (Europea ed in the product : exposure Local Non-applicable	n OEL, not co	ong expos	pecific sure Local n-applicable
	product. TION 8: EXPOSURE CON Control parameters: Substances whose occupat legislation): There are no applicable occ DNEL (Workers): Identifica	TROLS/PERSONAI	PROTECTIO	N nitored in the wor bstances containe Short	kplace (Europea ed in the product exposure	n OEL, not co	ong expos	pecific sure Local
	product. TION 8: EXPOSURE CON Control parameters: Substances whose occupat legislation): There are no applicable occ DNEL (Workers): Identification Imidazole CAS: 288-32-4	TROLS/PERSONAl	PROTECTIO s have to be mo limits for the su Oral Dermal	N nitored in the wor bstances containe Short Systemic Non-applicable Non-applicable	kplace (Europea ed in the product : exposure Local Non-applicable Non-applicable	n OEL, not co	ong expos	pecific sure Local n-applicable n-applicable
	product. TION 8: EXPOSURE CON Control parameters: Substances whose occupat legislation): There are no applicable occ DNEL (Workers): Identifica Imidazole CAS: 288-32-4 EC: 206-019-2	TROLS/PERSONAl	PROTECTIO s have to be mo limits for the su Oral Dermal	N nitored in the wor bstances containe Short Systemic Non-applicable Non-applicable	kplace (Europea ed in the product : exposure Local Non-applicable Non-applicable	n OEL, not co	ong expos	pecific sure Local n-applicable n-applicable
	product. TION 8: EXPOSURE CON Control parameters: Substances whose occupat legislation): There are no applicable occ DNEL (Workers): Identifica Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population	TROLS/PERSONAl	PROTECTIO s have to be mo limits for the su Oral Dermal	N nitored in the wor bstances containe Short Systemic Non-applicable Non-applicable	kplace (Europea ed in the product : exposure Local Non-applicable Non-applicable	n OEL, not co	ong expos	pecific sure Local n-applicable n-applicable
	product. TON 8: EXPOSURE CON Control parameters: Substances whose occupat legislation): There are no applicable occ DNEL (Workers): Identifica Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population Non-applicable	TROLS/PERSONAl	PROTECTIO s have to be mo limits for the su Oral Dermal	N nitored in the wor bstances containe Short Systemic Non-applicable Non-applicable	kplace (Europea ed in the product : exposure Local Non-applicable Non-applicable	n OEL, not co	ong expos	pecific sure Local n-applicable n-applicable
	product. TION 8: EXPOSURE CON Control parameters: Substances whose occupat legislation): There are no applicable occ DNEL (Workers): Identificat Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population Non-applicable PNEC:	TROLS/PERSONAl	PROTECTIO s have to be mo limits for the su Oral Dermal	N nitored in the wor bstances containe Short Systemic Non-applicable Non-applicable	kplace (Europea ed in the product : exposure Local Non-applicable Non-applicable	n OEL, not co	ong expos	pecific sure Local n-applicable n-applicable
	product. TON 8: EXPOSURE CON Control parameters: Substances whose occupat legislation): There are no applicable occ DNEL (Workers): Identifica Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population Non-applicable PNEC: Identifica Imidazole CAS: 288-32-4 EC: 206-019-2 Identifica Imidazole CAS: 288-32-4	TROLS/PERSONAl	PROTECTIO	N nitored in the wor bstances containe Short Systemic Non-applicable Non-applicable Non-applicable 10 mg/L 0,043 mg/kg	kplace (Europea ed in the product cexposure Non-applicable Non-applicable Non-applicable	n OEL, not co	ong expos e No 0,13 mg 0,013 n	pecific sure Local n-applicable n-applicable
	product. TON 8: EXPOSURE CON Control parameters: Substances whose occupat legislation): There are no applicable occ DNEL (Workers): Identifica Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population Non-applicable PNEC: Identifica Imidazole Identifica Imidazole	TROLS/PERSONAl	PROTECTIO	N nitored in the wor bstances containe Short Non-applicable Non-applicable Non-applicable 10 mg/L 0,043 mg/kg 1,3 mg/L	kplace (Europea ed in the product : exposure Non-applicable Non-applicable Non-applicable Ron-applicable Sediment (Fresl	n OEL, not co	ong expos e No No 0,13 mg 0,013 n	pecific sure Local n-applicable n-applicable n-applicable
1	product. TON 8: EXPOSURE CON Control parameters: Substances whose occupat legislation): There are no applicable occ DNEL (Workers): Identifica Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population Non-applicable PNEC: Identifica Imidazole CAS: 288-32-4 EC: 206-019-2 Identifica Imidazole CAS: 288-32-4 EC: 206-019-2	TROLS/PERSONAl	PROTECTIO	N nitored in the wor bstances containe Short Systemic Non-applicable Non-applicable Non-applicable 10 mg/L 0,043 mg/kg	kplace (Europea ed in the product cexposure Non-applicable Non-applicable Non-applicable	n OEL, not co	ong expos e No 0,13 mg 0,013 n	pecific sure Local n-applicable n-applicable n-applicable
	product. TON 8: EXPOSURE CON Control parameters: Substances whose occupat legislation): There are no applicable occ DNEL (Workers): Identifica Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population Non-applicable PNEC: Identifica Imidazole CAS: 288-32-4 EC: 206-019-2 Identifica Imidazole CAS: 288-32-4	TROLS/PERSONAl	- PROTECTIO s have to be mo limits for the su Oral Dermal Inhalation STP Soil Intermittent Oral	N nitored in the wor bstances containe Systemic Non-applicable Non-applicable Non-applicable 10 mg/L 0,043 mg/kg 1,3 mg/L Non-applicable	kplace (Europea ed in the product : exposure Non-applicable Non-applicable Non-applicable Ron-applicable Sediment (Fresl	n OEL, not co	ong expos e No No 0,13 mg 0,013 n	pecific sure Local n-applicable n-applicable n-applicable



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-101		CONTROLS/PERSONA				
	Pictogram	PPE	Labelling	CEN Standard		Remarks
	Mandatory respiratory tract protection	Filter mask for gases and vapours	CAT III	EN 405:2002+A1:201	0 0	place when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is ecommended 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)		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		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		•	•		
	Pictogram	PPE	Labelling	CEN Standard		Remarks
	Mandatory complete body protection	Disposable clothing for protection against chemical risks	CAT III	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	Fc	or professional use only. Clean periodically cording 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 Si	tandards	Emergency r	neasure	Standards
	Emergency sho	ISO 3864-1:20	SI Z358-1)11, ISO 3864-4:20	111 Eyewash st	ations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
En	vironmental exp	osure controls:		·		
In a spil Vol	accordance with th lage of both the p atile organic co	e community legislation product and its container mpounds:	. For additional	information see subs	ection 7.1	nmended to avoid environmental .D
	-	ive 2010/75/EU, this proc		lowing characteristics:		
	V.O.C. (Supply):		weight			
	V.O.C. density at		'm³ (0 g/L)			
	Average carbon r	number: Non-a	applicable			

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

*Not relevant due to the nature of the product, not providing information property of its hazards.



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SECTION 9: PHYSICAL AN	ID CHEMICAL PROPERTIE	S (continued)	
For complete information	on 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 atmosp	heric pressure:	Non-applicable *	
Vapour pressure at 20	°C:	Non-applicable *	
Vapour pressure at 50	°C:	Non-applicable *	
Evaporation rate at 20	°C:	Non-applicable *	
Product description:			
Density at 20 °C:		1110,8 kg/m ³	
Relative density at 20 o	C:	1,111	
Dynamic viscosity at 20	°C:	Non-applicable *	
Kinematic viscosity at 2	0 °C:	Non-applicable *	
Kinematic viscosity at 4	0 °C:	Non-applicable *	
Concentration:		Non-applicable *	
pH:		7,2	
Vapour density at 20 °C	:	Non-applicable *	
Partition coefficient n-od	tanol/water 20 °C:	Non-applicable *	
Solubility in water at 20	°C:	Non-applicable *	
Solubility properties:		Non-applicable *	
Decomposition tempera	ture:	Non-applicable *	
Melting point/freezing p	point:	Non-applicable *	
Flammability:			
Flash Point:		Non Flammable (>60 °C)	
Flammability (solid, gas):	Non-applicable *	
Autoignition temperatur		480 °C	
Lower flammability limit		Non-applicable *	
Upper flammability limit		Non-applicable *	
Particle characteristic			
Median equivalent diam	eter:	Non-applicable	
9.2 Other information:			
-	ard to physical hazard clas		
Explosive properties:		Non-applicable *	
Oxidising properties:		Non-applicable *	
Corrosive to metals:		Non-applicable *	
Heat of combustion:		Non-applicable *	
Aerosols-total percenta components: Other safety characte	ge (by mass) of flammable	Non-applicable *	
Surface tension at 20 °		Non-applicable *	
	ure of the product, not providing info		

Safety data sheet legislation

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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	SECTION 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.					
	Chemically stable under the	e indicated conditions of s	torage, handling and use.			
10.3	Possibility of hazardous	reactions:				
	Under the specified conditi	ons, hazardous reactions t	hat lead to excessive temp	eratures or pressure are	not expected.	
10.4	Conditions to avoid:					
	Applicable for handling and	d storage at room tempera	ture:			
	Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity	
	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
	10.5 Incompatible materials:					
10.5	Incompatible materials	•				
10.5	Incompatible materials Acids	Water	Oxidising materials	Combustible materials	Others	

complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

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

The experimental information related to the toxicological properties of the product itself is not available

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

- A- Ingestion (acute effect):
 - Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
 - Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
- B- Inhalation (acute effect):
 - Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for inhalation. For more information see section 3.
 - Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.
- C- Contact with the skin and the eyes (acute effect):
 - Contact with the skin: Produces skin inflammation.
 - Contact with the eyes: Produces eye damage after contact.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
 - Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.
 - IARC: Non-applicable
 - Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
 - Reproductive toxicity: May damage the unborn child.

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SECT	ION 11: TOXICOLOGICAL	INFORMATION (continued	d)			
	E- Sensitizing effects:					
	 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. 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. 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. 					
	G- Specific target organ toxic	city (STOT)-repeated exposure	:			
	 G- Specific target organ toxicity (STOT)-repeated exposure: 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. 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, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3. 					ed as
	Other information:					
	Non-applicable					
	Specific toxicology inform	ation on the substances:				
		Identification		Acu	te toxicity	Genus
	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	
11.2	Information on other haz	zards:		LC50 inhalation	>5 mg/L	
11.2	Information on other haz Endocrine disrupting prop			LC50 inhalation	>5 mg/L	
11.2	Endocrine disrupting prop Endocrine-disrupting properti		the criteria.	LC50 inhalation	>5 mg/L	
11.2	Endocrine disrupting prop Endocrine-disrupting properti Other information	perties	the criteria.	LC50 inhalation	>5 mg/L	
11.2	Endocrine disrupting prop Endocrine-disrupting properti	perties	the criteria.	LC50 inhalation	>5 mg/L	
	Endocrine disrupting prop Endocrine-disrupting properti Other information Non-applicable	perties les: The product does not meet	the criteria.	LC50 inhalation	>5 mg/L	
	Endocrine disrupting prop Endocrine-disrupting properti Other information	perties les: The product does not meet	the criteria.	LC50 inhalation	>5 mg/L	
SECT	Endocrine disrupting prop Endocrine-disrupting properti Other information Non-applicable	perties les: The product does not meet				
SECT The ex Based For m	Endocrine disrupting prop 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 meet -ORMATION d to the eco-toxicological prope cation criteria are not met, as it	erties of the pro	duct itself is not av	railable	this effect.
SECT The ex Based For m 12.1	Endocrine disrupting prop 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	erties tes: The product does not meet FORMATION d to the eco-toxicological prope cation criteria are not met, as it	erties of the pro	duct itself is not av	railable	this effect.
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Revised: 12/10/2023



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

legislation

CZ0688 - Polygalacturonase 28A, Thermotoga maritima

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: Transport hazard class(es): Labels:	Non-applicable Non-applicable Non-applicable Non-applicable
14.4	Packing group:	Non-applicable
14.5	Environmental hazards:	No
14.6	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:	

Revised: 12/10/2023

Safety data sheet legislation

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CZ0688 - Polygalacturonase 28A, Thermotoga maritima

Date of compilation:	23/06/2020 Revised: 12/	10/2023	Version: 2 (Replaced 1)		
SECTION 14: T	RANSPORT 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:

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

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NZYtech

CZ0688 - Polygalacturonase 28A, Thermotoga maritima

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 un H319: Causes serious eye ir	born child.	tion 2:
Texts of the legislative p	hrases mentioned in sec	tion 3:
The phrases indicated do no individual components whic		; they are present merely for informative purposes and refer to the
CLP Regulation (EC) No 1 Acute Tox. 4: H302 - Harmf Eye Dam. 1: H318 - Causes Repr. 1B: H360D - May dam Skin Corr. 1C: H314 - Cause	ul if swallowed. serious eye damage. age the unborn child.	e damage.
Advice related to training		
	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 acrony	/ms:	
IMDG: International maritin IATA: International Air Trar ICAO: International Civil Avia COD: Chemical Oxygen Der BOD5: 5day biochemical oxy BCF: Bioconcentration facto LD50: Lethal Dose 50 LC50: Lethal Concentration EC50: Effective concentratio LogPOW: Octanolwater part	ne dangerous goods code asport Association ation Organisation nand gen demand r 50 n 50 ition coefficient	Il carriage of dangerous goods by road
Koc: Partition coefficient of UFI: unique formula identifi IARC: International Agency	er	

** 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.