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**NZYtech** 

# CZ0242 - Acetyl xylan esterase 4A, Cellvibrio japonicus

Date of	compilation: 23/06/202	20 Revised: 12/10/2023	Version: 2 (Replaced 1)
SECT	TION 1: IDENTIFIC	ATION OF THE SUBSTANCE/MIX	TURE AND OF THE COMPANY/UNDERTAKING
1.1	Product identifier	: CZ0242 - Acetyl xylan esterase 4A,	Cellvibrio japonicus
		Glycerol	
	CAS:	56-81-5	
	EC:	200-289-5	
	Index:	Non-applicable	
	REACH:	01-2119471987-18-XXXX	
	Other means of ide	entification:	
	Non-applicable		
1.2	Relevant identified	d uses of the substance or mixture	e and uses advised against:
	Relevant uses: Labo	ratory. For professional users only.	
	Uses advised agains	t: All uses not specified in this section	or in section 7.3
1.3	Details of the sup	plier of the safety data sheet:	
	NZYTech Estrada do Paco do L 1649-038 Lisboa - L info@nzytech.com www.nzytech.com	Lumiar Campus do Lumiar - Edif. E, r/c isboa - Portugal	:
1.4	Emergency teleph	one number: Contact Local Poison J	Information Center or Local Emergency Number
SECT	TION 2: HAZARDS	IDENTIFICATION **	
2.1	Classification of th	ne substance or mixture:	
	CLP Regulation (E	EC) No 1272/2008:	
	Classification of this	product has been carried out in accord	dance with CLP Regulation (EC) No 1272/2008.

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

2.2 Label elements:

# CLP Regulation (EC) No 1272/2008:

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

Danger



### Hazard statements:

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

## **Precautionary statements:**

P201: Obtain special instructions before use.

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

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

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

# Substances that contribute to the classification

Imidazole (CAS: 288-32-4)

## Additional Labelling:

Restricted to professional users

## 2.3 Other hazards:

\*\* Changes with regards to the previous version

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# SECTION 2: HAZARDS IDENTIFICATION \*\* (continued)

Product does not meet PBT/vPvB criteria

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

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

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

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

#### 3.2 Mixture:

### Non-applicable

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

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

# SECTION 4: FIRST AID MEASURES

#### 4.1 Description of first aid measures:

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

# By inhalation:

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

### By skin contact:

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

## By eve contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

### By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

#### 4.2 Most important symptoms and effects, both acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

#### 4.3 Indication of any immediate medical attention and special treatment needed:

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# SECTION 4: FIRST AID MEASURES (continued)

Non-applicable

# SECTION 5: FIREFIGHTING MEASURES

#### 5.1 Extinguishing media:

## Suitable extinguishing media:

Product is non-flammable under normal conditions of storage, handling and use. In the case of combustion as a result of improper handling, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

# Unsuitable extinguishing media:

Non-applicable

#### 5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

#### 5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

## **Additional provisions:**

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

# SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures:

### For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

### For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

#### 6.2 **Environmental precautions:**

This product is not classified as hazardous to the environment. Keep product away from drains, surface and ground water.

#### 6.3 Methods and material for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

#### 6.4 Reference to other sections:

See sections 8 and 13.

## SECTION 7: HANDLING AND STORAGE

#### 7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6).

B.- Technical recommendations for the prevention of fires and explosions

e of o	compilation: 23/06/2020	Revised: 12/	10/2023 V	ersion: 2 (Replace	ed 1)			
	TON 7: HANDLING AND		•		,			
	Product is non-flammal	ble under normal	conditions of stora	ae bandling and	use. It is recomm	mended to tra	ansfer at slow	sneeds
	to avoid the generation conditions and materia	n of electrostatic	charges that can a					
	C Technical recommenda	tions on general o	occupational hygier	ne				
	PREGNANT WOMEN SH necessary safety condi equipment, especially o drink during the proces D Technical recommendat	tions (emergency on the hands and ss, washing hand	v showers and eye face (See section & s afterwards with a s afterwards with a s afterwards with a s afterwards with a section of the secti	wash stations in c 3). Limit manual tr	close proximity), ransfers to small	using persor	nal protectior	ו
	It is recommended to h	ave absorbent ma	aterial available at	close proximity to	the product (Se	e subsection	6.3)	
2	Conditions for safe stora				· ·		,	
	A Technical measures for		,					
	Store in a cool, dry, we	5	ion					
	B General conditions for							
	Avoid sources of heat,	5	lectricity and conta	ct with food For a	additional inform	nation see sub	section 10 5	
3								
9	Specific end use(s):							
	Except for the instructions	already specified	it is not necessary	to provide any sp	ecial recommen	dation regard	lina the uses	of this
ECT .1	Except for the instructions product. TION 8: EXPOSURE CON Control parameters: Substances whose occupat legislation):	TROLS/PERSON	NAL PROTECTIO	N		_	_	
	ION 8: EXPOSURE CON Control parameters:	TROLS/PERSON	NAL PROTECTIO	N nitored in the wor	kplace (Europea	n OEL, not cc	_	
	TON 8: EXPOSURE CON Control parameters: Substances whose occupat legislation):	TROLS/PERSON	NAL PROTECTIO	N nitored in the wor bstances containe	kplace (Europea ed in the product	n OEL, not cc	buntry-specifi	
	product. TION 8: EXPOSURE CON Control parameters: Substances whose occupat legislation): There are no applicable occ DNEL (Workers):	TROLS/PERSON	NAL PROTECTIO	N nitored in the wor bstances containe Short	kplace (Europea ed in the product	n OEL, not cc	ountry-specifi	c
	product. TION 8: EXPOSURE CON Control parameters: Substances whose occupat legislation): There are no applicable occ DNEL (Workers): Identifica	TROLS/PERSON	NAL PROTECTIO nits have to be mo ure limits for the su	N nitored in the wor bstances containe Short Systemic	kplace (Europea ed in the product : exposure Local	n OEL, not co	ountry-specifi	C
	product. TION 8: EXPOSURE CON Control parameters: Substances whose occupat legislation): There are no applicable occ DNEL (Workers):	TROLS/PERSON	NAL PROTECTIO	N nitored in the wor bstances containe Short	kplace (Europea ed in the product	n OEL, not cc	ountry-specifi	C
	product. TION 8: EXPOSURE CON Control parameters: Substances whose occupat legislation): There are no applicable occ DNEL (Workers): Identifica Imidazole	TROLS/PERSON	NAL PROTECTIO nits have to be mo ure limits for the su Oral	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	ountry-specifi	C C Dcal icable
	product. TION 8: EXPOSURE CON Control parameters: Substances whose occupat legislation): There are no applicable occ DNEL (Workers): Identifica Imidazole CAS: 288-32-4	TROLS/PERSON	NAL PROTECTIO nits have to be mo ure 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	ountry-specifi ong exposure c Lo e Non-appli	C C Dcal icable
	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/PERSON	NAL PROTECTIO nits have to be mo ure 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	ountry-specifi ong exposure c Lo e Non-appli	C C Dcal icable
	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/PERSON	NAL PROTECTIO nits have to be mo ure 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	ountry-specifi ong exposure c Lo e Non-appli	C C Dcal icable
	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 Non-applicable	TROLS/PERSON cional exposure lir cupational exposu ation	NAL PROTECTIO nits have to be mo ure 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	ountry-specifi ong exposure c Lo e Non-appli	C C Dcal icable
	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 Non-applicable PNEC:	TROLS/PERSON cional exposure lir cupational exposu ation	NAL PROTECTIO nits have to be mo ure 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	ountry-specifi ong exposure c Lo e Non-appli	C C Dcal icable
	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 Identifica	TROLS/PERSON cional exposure lir cupational exposu ation	NAL PROTECTIO nits have to be mo ure limits for the su Oral Dermal Inhalation	N hitored 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 exposure Non-applicable Non-applicable	n OEL, not co	ountry-specifi cong exposure c Lc e Non-appli Non-appli 0,13 mg/L 0,013 mg/L	C C Dcal icable
	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/PERSON cional exposure lir cupational exposu ation	NAL PROTECTIO nits have to be mo ure limits for the su Oral Oral Dermal Inhalation STP Soil Intermittent	N hitored in the wor bstances containe Short Non-applicable Non-applicable Non-applicable Inon-applicable Inon	kplace (Europea ed in the product : exposure Local Non-applicable Non-applicable Non-applicable Fresh water Marine water Sediment (Fresl	n OEL, not co	ountry-specifi ountry-specifi Non-appli Non-appli 0,13 mg/L 0,336 mg/kg	C C Dcal icable
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/PERSON cional exposure lir cupational exposu ation	NAL PROTECTIO nits have to be mo ure limits for the su Oral Oral Dermal Inhalation STP Soil	N hitored 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 eet in the product Non-applicable Non-applicable Non-applicable	n OEL, not co	ountry-specifi cong exposure c Lc e Non-appli Non-appli 0,13 mg/L 0,013 mg/L	C C Dcal icable
	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	TROLS/PERSON cional exposure lir cupational exposu ation	NAL PROTECTIO nits have to be mo ure limits for the su Oral Dermal Inhalation STP Soil Intermittent Oral Oral	N hitored 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 Local Non-applicable Non-applicable Non-applicable Fresh water Marine water Sediment (Fresl	n OEL, not co	ountry-specifi ountry-specifi Non-appli Non-appli 0,13 mg/L 0,336 mg/kg	C C Dcal icable



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TION	1 6: EXPUSURE	CONTROLS/PERSONA	L PROTECTION			
	Pictogram	PPE	Labelling	CEN Standard		Remarks
	Mandatory respiratory tract protection	Filter mask for gases and vapours		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)		EN ISO 21420:2020	Repl	lace the gloves at any sign of deterioratic
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 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+A1:2009 EN 168:2002 EN 150 13982- 1:2004/A1:2010 EN ISO 6529:2013 EN ISO 6530:2005 EN 464:1994		r professional use only. Clean periodicall ording to the manufacturer's instructions
	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 mea	asure St	andards	Emergency measure	sure	Standards
	Emergency sho	ISO 3864-1:20	5I Z358-1 11, ISO 3864-4:20	11 Eyewash statio	ns	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
Env	vironmental exp	osure controls:				
In a spil	accordance with th	e community legislation f roduct and its container.				nmended to avoid environmental .D
	-	ve 2010/75/EU, this prod	luct has the foll	owing characteristics.		
	V.O.C. (Supply):		veight			
	V.O.C. density at		m <sup>3</sup> (0 g/L)			
	Average carbon r	-	applicable			
	-		ipplicable			

# 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 AND CHEMICAL PROPERTIES	(continued)
For co	omplete information see the product datasheet.	
Appe	arance:	
Physi	cal state at 20 ºC:	Liquid
Appea	arance:	Not available
Colou	r:	Colourless
Odou	r:	Odourless
Odou	r threshold:	Non-applicable *
Volat	tility:	
Boilin	g point at atmospheric pressure:	Non-applicable *
Vapou	ur pressure at 20 °C:	Non-applicable *
Vapou	ur pressure at 50 °C:	Non-applicable *
Evapo	pration rate at 20 °C:	Non-applicable *
Prod	uct description:	
Densi	ty at 20 ºC:	1110,8 kg/m³
Relati	ive density at 20 °C:	1,111
Dynar	nic viscosity at 20 °C:	Non-applicable *
Kinem	natic viscosity at 20 °C:	Non-applicable *
Kinem	natic viscosity at 40 °C:	Non-applicable *
Conce	entration:	Non-applicable *
pH:		7,2
Vapou	ur density at 20 ºC:	Non-applicable *
Partiti	on coefficient n-octanol/water 20 °C:	Non-applicable *
Solub	ility in water at 20 ºC:	Non-applicable *
Solub	ility properties:	Non-applicable *
Decor	nposition temperature:	Non-applicable *
Meltir	ng point/freezing point:	Non-applicable *
Flam	mability:	
Flash	Point:	Non Flammable (>60 °C)
Flamr	nability (solid, gas):	Non-applicable *
Autoig	gnition temperature:	480 °C
Lower	flammability limit:	Non-applicable *
Upper	flammability limit:	Non-applicable *
Parti	cle characteristics:	
Media	in equivalent diameter:	Non-applicable
9.2 Othe	r information:	
Infor	mation with regard to physical hazard class	es:
Explo	sive properties:	Non-applicable *
Oxidis	sing properties:	Non-applicable *
Corro	sive to metals:	Non-applicable *
Heat	of combustion:	Non-applicable *
comp	ols-total percentage (by mass) of flammable onents: r safety characteristics:	Non-applicable *
	ce tension at 20 °C:	Non-applicable *
	elevant due to the nature of the product, not providing inform	

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ate of c	te of compilation: 23/06/2020 Revised: 12/10/2023 Version: 2 (Replaced 1)						
SECT	TON 9: PHYSICAL AND (	HEMICAL 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						
	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	indicated conditions of s	torage, handling and use.				
10.3	Possibility of hazardous	reactions:					
	Under the specified condition	ons, hazardous reactions t	hat lead to excessive temp	eratures or pressure are	not expected.		
10.4	Conditions to avoid:						
	Applicable for handling and	storage at room tempera	iture:				
	Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity		
	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable		
10.5	10.5 Incompatible materials:						
	Acids         Water         Oxidising materials         Combustible materials         Others						
	Acids         Water         Oxidising materials         Combustible materials         Others           Avoid strong acids         Not applicable         Precaution         Not applicable         Avoid alkalis or strong bases						

## complex mixtures of chemical substances can be released: carbon dioxide (CO<sub>2</sub>), carbon monoxide and other organic compounds.

## SECTION 11: TOXICOLOGICAL INFORMATION

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

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

### **Dangerous health implications:**

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

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

Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

Reproductive toxicity: May damage the unborn child.

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SECT	ION 11: TOXICOLOGICAL	_ INFORMATION (continue	ed)			
	E- Sensitizing effects:					
	<ul> <li>Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.</li> <li>Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.</li> <li>Specific target organ toxicity (STOT) - single exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.</li> <li>Specific target organ toxicity (STOT) - single exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.</li> <li>Specific target organ toxicity (STOT)-repeated exposure:</li> </ul>					
	<ul> <li>G- Specific target organ toxicity (STOT)-repeated exposure:</li> <li>Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.</li> <li>Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.</li> <li>H- Aspiration hazard:</li> <li>Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.</li> </ul>					ed as
	Other information:					
	Non-applicable	antion on the substances				
	Specific toxicology inform					
		Identification			te toxicity	Genus
	Imidazole CAS: 288-32-4			LD50 oral LD50 dermal	500 mg/kg (ATEi) >2000 mg/kg	
	EC: 206-019-2					
	EC: 200-019-2			LC50 inhalation	>5 mg/L	
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SECT. The ex Based For mo 12.1 12.2 12.3 12.4 12.5	Information on other has Endocrine disrupting propert Other information Non-applicable ION 12: ECOLOGICAL IN Apperimental information related on available data, the classifi ore information see section 3 Toxicity: Not available Persistence and degradat Not available Bioaccumulative potentia Not available Mobility in soil: Not available Results of PBT and vPvB Product does not meet PBT/ Endocrine disrupting prop	perties ties: The product does not mee FORMATION ed to the eco-toxicological prop ication criteria are not met, as i 3. bility: assessment: vPvB criteria	erties of the pro it does not conta	LC50 inhalation	>5 mg/L	this effect.
SECT The ex Based For ma 12.1 12.2 12.3 12.4 12.5 12.6	Information on other has Endocrine disrupting propert Other information Non-applicable ION 12: ECOLOGICAL IN Apperimental information related on available data, the classifi ore information see section 3 Toxicity: Not available Persistence and degradat Not available Bioaccumulative potentia Not available Mobility in soil: Not available Results of PBT and vPvB Product does not meet PBT/ Endocrine disrupting prop	perties ties: The product does not mee FORMATION ed to the eco-toxicological prop ication criteria are not met, as i 3. bility: assessment: vPvB criteria perties:	erties of the pro it does not conta	LC50 inhalation	>5 mg/L	this effect.

- CONTINUED ON NEXT PAGE -

Version: 2 (Replaced 1)

Revised: 12/10/2023



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

legislation

# CZ0242 - Acetyl xylan esterase 4A, Cellvibrio japonicus

Date of compilation: 23/06/2020

Revised: 12/10/2023

Version: 2 (Replaced 1)

### SECTION 13: DISPOSAL CONSIDERATIONS 13.1 Waste treatment methods: Waste class (Regulation (EU) No Code Description 1357/2014) It is not possible to assign a specific code, as it depends on the intended use by the user Dangerous Type of waste (Regulation (EU) No 1357/2014): HP10 Toxic for reproduction 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:

	UN number or ID number:	Non-applicable
	UN proper shipping name:	Non-applicable
14.3		Non-applicable
	Labels:	Non-applicable
	Packing group:	Non-applicable
	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	Non-applicable
	according to IMO	
	instruments:	
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	Non-applicable
	according to IMO	
	instruments:	
Transpo	rt of dangerous goods by air:	

Revised: 12/10/2023

Safety data sheet legislation

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# CZ0242 - Acetyl xylan esterase 4A, Cellvibrio japonicus

Date of compilation:	23/06/2020 Revised: 12/	10/2023	Version: 2 (Replaced 1)
SECTION 14: T	RANSPORT INFORMATION (	continued)	
With rega	ard to IATA/ICAO 2023:		
14.2 14.3 14.4	UN number or ID number: UN proper shipping name: Transport hazard class(es): Labels: Packing group: Environmental hazards:	Non-applicable Non-applicable Non-applicable Non-applicable Non-applicable No	
	Special precautions for user Physico-Chemical properties:	see section 9	
14.7	Maritime transport in bulk according to IMO instruments:	Non-applicable	
SECTION 15: R	EGULATORY 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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# CZ0242 - Acetyl xylan esterase 4A, Cellvibrio japonicus

Date of compilation: 23/06/2020	Revised: 12/10/2023	Version: 2 (Replaced 1)
SECTION 16: OTHER INFORM	IATION ** (continued)	
COMMISSION REGULATION CLP Regulation (EC) No 127 · Hazard statements		ION 16):
Texts of the legislative p H315: Causes skin irritation H360D: May damage the u H319: Causes serious eye	nborn child.	ction 2:
Texts of the legislative r	hrases mentioned in sec	ction 3:
The phrases indicated do n individual components whi		f; they are present merely for informative purposes and refer to the
CLP Regulation (EC) No Acute Tox. 4: H302 - Harm Eye Dam. 1: H318 - Cause Repr. 1B: H360D - May dar Skin Corr. 1C: H314 - Caus	ful if swallowed. s serious eye damage.	re 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 maritii IATA: International Air Tra ICAO: International Civil Av	me dangerous goods code nsport Association	al carriage of dangerous goods by road
COD: Chemical Oxygen De BOD5: 5day biochemical ox BCF: Bioconcentration fact	mand ygen demand	
LD50: Lethal Dose 50 LC50: Lethal Concentration EC50: Effective concentration	on 50	
LogPOW: Octanolwater par Koc: Partition coefficient of UFI: unique formula identifi	<sup>:</sup> organic carbon īer	
IARC: International Agency	for Research on Cancer	

\*\* 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.