

legislation CZ0408 - Poly a-guluronate lyase 7A, Zobellia galactanivorans

Date of	compilation: 23/06/20	020 Revised: 12/10/2023 Version: 2 (Replaced 1)
SECT	TION 1: IDENTIFIC	ATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1	Product identifier	r: CZ0408 - Poly a-guluronate lyase 7A, Zobellia galactanivorans
		Glycerol
	CAS:	56-81-5
	EC:	200-289-5
	Index:	Non-applicable
	REACH:	01-2119471987-18-XXXX
	Other means of id	lentification:
	Non-applicable	
1.2	Relevant identified	d uses of the substance or mixture and uses advised against:
	Relevant uses: Labo	pratory. For professional users only.
	Uses advised agains	st: All uses not specified in this section or in section 7.3
1.3	Details of the sup	plier of the safety data sheet:
	1649-038 Lisboa - L info@nzytech.com www.nzytech.com	
1.4	Emergency teleph	none number: Contact Local Poison Information Center or Local Emergency Number
SECT	TION 2: HAZARDS	IDENTIFICATION **
2.1	Classification of th	he substance or mixture:
	CLP Regulation (E	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

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

legislation

CZ0408 - Poly a-guluronate lyase 7A, Zobellia galactanivorans

Date of compilation: 23/06/2020

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:

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

legislation

CZ0408 - Poly a-guluronate lyase 7A, Zobellia galactanivorans

Date of compilation: 23/06/2020

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

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

8 NZYtech

CZ0408 - Poly a-guluronate lyase 7A, Zobellia galactanivorans

	compilation: 23/06/2020	Revised: 12/10/	2023 V	ersion: 2 (Replace	d 1)		
ECT	TION 7: HANDLING AND	STORAGE (contin	ued)				
	Product is non-flammab to avoid the generation conditions and material C Technical recommendat	of electrostatic cha s that should be av	arges that can a oided.	affect flammable p			
	PREGNANT WOMEN SH necessary safety condit equipment, especially o drink during the proces D Technical recommendati	ions (emergency sh n the hands and fac s, washing hands a	nowers and eye te (See section & fterwards with	wash stations in c 3). Limit manual tr suitable cleaning	close proximity), ransfers to small	using personal	l protection
	It is recommended to ha				the product (Se	e subsection 6.	3)
.2	Conditions for safe stora						
	A Technical measures for						
	Store in a cool, dry, well						
	B General conditions for s						
	Avoid sources of heat, r	-	ricity and conta	et with food For :	additional inform	ation coo cubco	oction 10 5
2						auon see subse	201011 10.5
.3	Specific end use(s):						
	Except for the instructions a product.	already specified it is	s not necessary	to provide any sp	ecial recommen	dation regarding	g the uses of this
_							
ECT	TION 8: EXPOSURE CONT	ROLS/PERSONAL	_ PROTECTIO	N			
	Control parameters: Substances whose occupati				kplace (Europea	n OEL, not cour	ntry-specific
	Control parameters:	onal exposure limits	s have to be mo	nitored in the wor			ntry-specific
	Control parameters: Substances whose occupati legislation): There are no applicable occ	onal exposure limits	s have to be mo	nitored in the wor			ntry-specific g exposure
	Control parameters: Substances whose occupati legislation): There are no applicable occ	onal exposure limits upational exposure	s have to be mo limits for the su	nitored in the wor	ed in the product		
	Control parameters: Substances whose occupati legislation): There are no applicable occ DNEL (Workers): Identifica	onal exposure limits upational exposure	s have to be mo limits for the su <u>Oral</u>	nitored in the wor bstances containe Short Systemic Non-applicable	ed in the product exposure Local Non-applicable	Lon Systemic Non-applicable	g exposure Local Non-applicable
ECT .1	Control parameters: Substances whose occupati legislation): There are no applicable occ DNEL (Workers): Identificat Imidazole CAS: 288-32-4	onal exposure limits upational exposure	s have to be mo limits for the su Oral Dermal	nitored 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 occupati legislation): There are no applicable occ DNEL (Workers): Identificat Imidazole CAS: 288-32-4 EC: 206-019-2	onal exposure limits upational exposure tion	s have to be mo limits for the su <u>Oral</u>	nitored in the wor bstances 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 occupati legislation): There are no applicable occ DNEL (Workers): Identificat Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population	onal exposure limits upational exposure tion	s have to be mo limits for the su Oral Dermal	nitored 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 occupatilegislation): There are no applicable occupation DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population Non-applicable	onal exposure limits upational exposure tion	s have to be mo limits for the su Oral Dermal	nitored 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 occupati legislation): There are no applicable occ DNEL (Workers): Identificat Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population Non-applicable PNEC:	onal exposure limits upational exposure tion n):	s have to be mo limits for the su Oral Dermal	nitored 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 occupati 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	onal exposure limits upational exposure tion n):	s have to be mo limits for the su Oral Dermal Inhalation	nitored in the wor bstances containe Short Systemic Non-applicable Non-applicable	ed in the product	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 occupati legislation): There are no applicable occ DNEL (Workers): Identifica Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General populatio Non-applicable PNEC: Identificat Imidazole	onal exposure limits upational exposure tion n):	s have to be mo limits for the su Oral Dermal Inhalation	nitored in the wor bstances containe Short Systemic Non-applicable Non-applicable Non-applicable	ed in the product	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 occupati legislation): There are no applicable occ DNEL (Workers): Identificat Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population Non-applicable PNEC: Identificat Imidazole CAS: 288-32-4	onal exposure limits upational exposure tion n):	s have to be mo limits for the su Oral Dermal Inhalation	nitored in the wor bstances containe Short Systemic Non-applicable Non-applicable	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	g exposure Local Non-applicable Non-applicable Non-applicable
	Control parameters: Substances whose occupati legislation): There are no applicable occ DNEL (Workers): Identifica Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General populatio Non-applicable PNEC: Identificat Imidazole	onal exposure limits upational exposure tion n):	oral Oral Dermal Inhalation STP Soil	nitored in the wor bstances containe Short Systemic Non-applicable Non-applicable Non-applicable	ed in the product	Lon Systemic Non-applicable 1,5 mg/kg 10,6 mg/m ³	g exposure Local Non-applicable Non-applicable Non-applicable
.1	Control parameters: Substances whose occupati legislation): There are no applicable occ DNEL (Workers): Identificat Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population Non-applicable PNEC: Identificat Imidazole CAS: 288-32-4	onal exposure limits upational exposure tion n):	S have to be mo limits for the su Oral Dermal Inhalation STP Soil Intermittent	nitored in the wor bstances containe Short Systemic Non-applicable Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable Non-applicable Fresh water Marine water Sediment (Fres	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 0,336 mg/kg
	Control parameters: Substances whose occupati legislation): There are no applicable occ DNEL (Workers): Identificat Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population Non-applicable PNEC: Identificat Imidazole CAS: 288-32-4 EC: 206-019-2	onal exposure limits upational exposure tion	S have to be mo limits for the su Oral Dermal Inhalation STP Soil Intermittent Oral	nitored 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 (Fres	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 0,336 mg/kg

This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation **8** NZYtech

CZ0408 - Poly a-guluronate lyase 7A, Zobellia galactanivorans

TION	8: EXPOSURE	CONTROLS/PERSON/	AL PROTECTIC	N (continued)		
	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)		EN ISO 21420:2020	Rep	lace the gloves at any sign of deterioration
D	Eye and face prot	ection	1 1		•	
	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 is risk of splashing.
E	Body protection		4			
	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 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 S	Standards	Emergency measu	ure	Standards
	Emergency sho	ISO 3864-1:2	NSI Z358-1 011, ISO 3864-4:201	1 Eyewash station	15	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
Env	vironmental exp			,		
In a spil	- accordance with th	ne community legislation product and its container				nmended to avoid environmental .D
Wit	h regard to Directi	ive 2010/75/EU, this pro	duct has the follo	wing characteristics:		
	V.O.C. (Supply):	0 %	weight			
	V.O.C. density at	20 ºC: 0 kg,	/m³ (0 g/L)			
	Average carbon r	number: Non-	applicable			
	Average molecula	r woight: 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.

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

CZ0408 - Poly a-guluronate lyase 7A, Zobellia galactanivorans

ate of compilation: 23/06/20	20 Revised: 12/10/2023	Version: 2 (Replaced 1)	
SECTION 9: PHYSICAL	AND CHEMICAL PROPERTIE	S (continued)	
For complete inform	ation 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 atmo	ospheric pressure:	Non-applicable *	
Vapour pressure at 2	20 °C:	Non-applicable *	
Vapour pressure at !	50 °C:	Non-applicable *	
Evaporation rate at 2	20 °C:	Non-applicable *	
Product descriptio	n:		
Density at 20 °C:		1110,8 kg/m ³	
Relative density at 2	0 °C:	1,111	
Dynamic viscosity at	20 °C:	Non-applicable *	
Kinematic viscosity a	t 20 ºC:	Non-applicable *	
Kinematic viscosity a	t 40 °C:	Non-applicable *	
Concentration:		Non-applicable *	
pH:		7,2	
Vapour density at 20	°C:	Non-applicable *	
	n-octanol/water 20 °C:	Non-applicable *	
Solubility in water at	: 20 °C:	Non-applicable *	
Solubility properties:		Non-applicable *	
Decomposition temp	erature:	Non-applicable *	
Melting point/freezin	g point:	Non-applicable *	
Flammability:			
Flash Point:		Non Flammable (>60 °C)	
Flammability (solid,	gas):	Non-applicable *	
Autoignition tempera		480 °C	
Lower flammability I		Non-applicable *	
Upper flammability I		Non-applicable *	
Particle characteri			
Median equivalent d		Non-applicable	
9.2 Other information			
	regard to physical hazard clas		
Explosive properties:		Non-applicable *	
Oxidising properties:		Non-applicable *	
Corrosive to metals:		Non-applicable *	
Heat of combustion:		Non-applicable *	
Aerosols-total percer components: Other safety chara	ntage (by mass) of flammable	Non-applicable *	
Surface tension at 2		Non-applicable *	
	nature of the product, not providing info		

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

CZ0408 - Poly α-guluronate lyase 7A, *Zobellia galactanivorans*

ate of compilation: 23/06/2020 Revised: 12/10/2023 Version: 2 (Replaced 1)						
SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)						
	Refraction index: Non-applicable *					
	*Not relevant due to the nature o	f the product, not providing info	ormation property of its hazards.			
SECTI	ION 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	peratures or pressure are	not expected.	
10.4	Conditions to avoid:					
	Applicable for handling and	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:					
	Acids	Water	Oxidising materials	Combustible materials	Others	
	Avoid strong acids	Not applicable	Precaution	Not applicable	Avoid alkalis or strong bases	
10.6	Hazardous decomposition See subsection 10.3, 10.4 a	•	pecific decomposition proc	lucts. Depending on the	decomposition conditions	
	complex mixtures of chemic					

SECTION 11: TOXICOLOGICAL INFORMATION

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

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

Dangerous health implications:

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

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

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

NZYtech

CZ0408 - Poly a-guluronate lyase 7A, Zobellia galactanivorans

te of co						
	ompilation: 23/06/2020	Revised: 12/10/2023	Version: 2 (Re	eplaced 1)		
SECTI	ION 11: TOXICOLOGICAL	. INFORMATION (contin	nued)			
	E- Sensitizing effects:					
	hazardous with sensitisir - Skin: Based on availal	available data, the classific ng effects. For more inform ple data, the classification c . For more information see city (STOT) - single exposu	nation see section 3 riteria are not met, e section 3.	3.		
	Based on available data, this effect. For more info G- Specific target organ toxi			es not contain sub	stances classified as l	hazardous for
	 Specific target organ t it does not contain subst Skin: Based on availab 	coxicity (STOT)-repeated ex cances classified as hazardo ole data, the classification c . For more information see	xposure: Based on a ous for this effect. riteria are not met,	For more informa	tion see section 3.	
	Based on available data, this effect. For more info Other information:	the classification criteria are prmation see section 3.	e not met, as it doe	es not contain sub	stances classified as l	hazardous for
	Non-applicable					
	Specific toxicology inform	ation on the substances	5:			
		Identification		A	cute toxicity	Genus
	Imidazole			LD50 oral	500 mg/kg (ATEi)	
	CAS: 288-32-4			LD50 dermal	>2000 mg/kg	
	EC: 206-019-2 Information on other haz Endocrine disrupting prop			LC50 inhalation	>5 mg/L	
	Information on other haz Endocrine disrupting prop Endocrine-disrupting propert	perties	neet the criteria.			
	Information on other has Endocrine disrupting prop Endocrine-disrupting propert Other information	perties	neet the criteria.			
	Information on other haz Endocrine disrupting prop Endocrine-disrupting propert	perties	neet the criteria.			
	Information on other haz Endocrine disrupting prop Endocrine-disrupting propert Other information Non-applicable	perties ies: The product does not n	neet the criteria.			
SECTI	Information on other haz Endocrine disrupting propert Endocrine-disrupting propert Other information Non-applicable	FORMATION		LC50 inhalation	>5 mg/L	
SECTI The ex Based For mo	Information on other haz Endocrine disrupting prop Endocrine-disrupting propert Other information Non-applicable	berties ies: The product does not n FORMATION d to the eco-toxicological pr cation criteria are not met, a	roperties of the pro	LC50 inhalation	>5 mg/L	for this effect.
SECTI The ex Based For mo	Information on other has Endocrine disrupting prop Endocrine-disrupting propert Other information Non-applicable ION 12: ECOLOGICAL INI operimental information relate on available data, the classifiore information see section 3	berties ies: The product does not n FORMATION d to the eco-toxicological pr cation criteria are not met, a	roperties of the pro	LC50 inhalation	>5 mg/L	for this effect.
SECTI The ex Based For mo 12.1	Information on other has Endocrine disrupting propert Endocrine-disrupting propert Other information Non-applicable ION 12: ECOLOGICAL INI operimental information relate on available data, the classifi ore information see section 3 Toxicity:	berties ies: The product does not n FORMATION d to the eco-toxicological pro- cation criteria are not met, a	roperties of the pro	LC50 inhalation	>5 mg/L	for this effect.
SECTI The ex Based For mo 12.1	Information on other has Endocrine disrupting propert Endocrine-disrupting propert Other information Non-applicable ION 12: ECOLOGICAL INI Reperimental information relate on available data, the classifi ore information see section 3 Toxicity: Not available	berties ies: The product does not n FORMATION d to the eco-toxicological pro- cation criteria are not met, a	roperties of the pro	LC50 inhalation	>5 mg/L	for this effect.
SECTI The ex Based For mo 12.1 12.2	Information on other has Endocrine disrupting propert Endocrine-disrupting propert Other information Non-applicable ION 12: ECOLOGICAL INI ore information relate on available data, the classifiore information see section 3 Toxicity: Not available Persistence and degradab	FORMATION d to the eco-toxicological prication criteria are not met, a	roperties of the pro	LC50 inhalation	>5 mg/L	for this effect.
SECTI The ex Based For mo 12.1 12.2	Information on other has Endocrine disrupting propert Endocrine-disrupting propert Other information Non-applicable ION 12: ECOLOGICAL INI experimental information relate on available data, the classifi ore information see section 3 Toxicity: Not available Persistence and degradab Not available	FORMATION d to the eco-toxicological prication criteria are not met, a	roperties of the pro	LC50 inhalation	>5 mg/L	for this effect.
SECTI The ex Based For mc 12.1 12.2 12.3	Information on other has Endocrine disrupting propert Other information Non-applicable ION 12: ECOLOGICAL INIT ore information relate on available data, the classifi ore information see section 3 Toxicity: Not available Persistence and degradab Not available Bioaccumulative potentia	FORMATION d to the eco-toxicological prication criteria are not met, a	roperties of the pro	LC50 inhalation	>5 mg/L	for this effect.
SECTI The ex Based For mc 12.1 12.2 12.3	Information on other has Endocrine disrupting propert Other information Non-applicable ION 12: ECOLOGICAL INIT Apprimental information relate on available data, the classifi- ore information see section 3 Toxicity: Not available Persistence and degradab Not available Bioaccumulative potentia Not available	FORMATION d to the eco-toxicological prication criteria are not met, a	roperties of the pro	LC50 inhalation	>5 mg/L	for this effect.
SECTI The ex Based For mc 12.1 12.2 12.3 12.4	Information on other has Endocrine disrupting propert Other information Non-applicable ION 12: ECOLOGICAL INIT operimental information relate on available data, the classifit ore information see section 3 Toxicity: Not available Persistence and degradate Not available Bioaccumulative potentia Not available Mobility in soil:	FORMATION d to the eco-toxicological procession criteria are not met, a bility:	roperties of the pro	LC50 inhalation	>5 mg/L	for this effect.
SECTI The ex Based For mc 12.1 12.2 12.3 12.4	Information on other has Endocrine disrupting propert Other information Non-applicable ION 12: ECOLOGICAL INIT ore information relate on available data, the classifi- ore information see section 3 Toxicity: Not available Persistence and degradab Not available Bioaccumulative potentia Not available Mobility in soil: Not available	FORMATION d to the eco-toxicological price of the product are not met, and the eco-toxicological price of the eco-toxicolog	roperties of the pro	LC50 inhalation	>5 mg/L	for this effect.
SECTI The ex Based For mc 12.1 12.2 12.3 12.4 12.5	Information on other has Endocrine disrupting propert Other information Non-applicable ION 12: ECOLOGICAL INI Reperimental information relate on available data, the classifi- ore information see section 3 Toxicity: Not available Persistence and degradate Not available Bioaccumulative potentia Not available Mobility in soil: Not available Results of PBT and vPvB a	erties ies: The product does not n FORMATION d to the eco-toxicological pro- cation criteria are not met, a - ility: I: assessment: /PvB criteria	roperties of the pro	LC50 inhalation	>5 mg/L	for this effect.
SECTI The ex Based For mc 12.1 12.2 12.3 12.4 12.5	Information on other has Endocrine disrupting propert Other information Non-applicable ION 12: ECOLOGICAL INIT Reperimental information related on available data, the classifit ore information see section 3 Toxicity: Not available Persistence and degradate Not available Bioaccumulative potentia Not available Mobility in soil: Not available Results of PBT and vPvB a Product does not meet PBT/M	FORMATION d to the eco-toxicological procession of the eco-toxico	roperties of the pro as it does not conta	LC50 inhalation	>5 mg/L	for this effect.
SECTI The ex Based For mo 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 INI Approximation relate on available data, the classifi- ore information see section 3 Toxicity: Not available Persistence and degradab Not available Bioaccumulative potentia Not available Mobility in soil: Not available Results of PBT and vPvB a Product does not meet PBT/v Endocrine disrupting prop	FORMATION d to the eco-toxicological procession of the eco-toxico	roperties of the pro as it does not conta	LC50 inhalation	>5 mg/L	for this effect.
SECTI The ex Based For mo 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 INI Reperimental information relate on available data, the classifit ore information see section 3 Toxicity: Not available Persistence and degradab Not available Bioaccumulative potentia Not available Mobility in soil: Not available Results of PBT and vPvB a Product does not meet PBT/v Endocrine disrupting propert	FORMATION d to the eco-toxicological procession of the eco-toxico	roperties of the pro as it does not conta	LC50 inhalation	>5 mg/L	for this effect.

- CONTINUED ON NEXT PAGE -

Revised: 12/10/2023

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

legislation

CZ0408 - Poly a-guluronate lyase 7A, Zobellia galactanivorans

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:

	UN number or ID number: UN proper shipping name:	Non-applicable Non-applicable
14.3		Non-applicable
	Labels:	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:	

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



CZ0408 - Poly a-guluronate lyase 7A, Zobellia galactanivorans

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:		
14.1	UN number or ID number:	Non-applicable	
14.2	UN proper shipping name:	Non-applicable	
14.3	Transport hazard class(es):	Non-applicable	
	Labels:	Non-applicable	
14.4	Packing group:	Non-applicable	
14.5	Environmental hazards:	No	
14.6	Special precautions for user		
	Physico-Chemical properties:	see section 9	
14.7	Maritime transport in bulk according to IMO instruments:	Non-applicable	

SECTION 15: REGULATORY INFORMATION

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

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

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

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

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

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

Seveso III:

Non-applicable

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

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

Shall not be used in:

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

—tricks and jokes,

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

Specific provisions in terms of protecting people or the environment:

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

Other legislation:

The product could be affected by sectorial legislation

15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

SECTION 16: OTHER INFORMATION **

Legislation related to safety data sheets:

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

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

** Changes with regards to the previous version

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

CZ0408 - Poly α-guluronate lyase 7A, Zobellia galactanivorans

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 1272 · Hazard statements	2008 (SECTION 2, SECTI	
Texts of the legislative pl H315: Causes skin irritation. H360D: May damage the unl H319: Causes serious eye ir	oorn child.	
Texts of the legislative pl	rases mentioned in sec	ction 3:
The phrases indicated do no individual components which		; they are present merely for informative purposes and refer to the
CLP Regulation (EC) No 1 Acute Tox. 4: H302 - Harmfu Eye Dam. 1: H318 - Causes Repr. 1B: H360D - May dam Skin Corr. 1C: H314 - Cause	Il 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		·
http://echa.europa.eu http://eur-lex.europa.eu		
Abbreviations and acrony	ms:	
IMDG: International maritim IATA: International Air Tran ICAO: International Civil Avia	e dangerous goods code sport Association tion Organisation	al carriage of dangerous goods by road
COD: Chemical Oxygen Den BOD5: 5day biochemical oxy BCF: Bioconcentration facto LD50: Lethal Dose 50	gen demand	
LC50: Lethal Concentration EC50: Effective concentration LogPOW: Octanolwater part Koc: Partition coefficient of	n 50 tion coefficient	
UFI: unique formula identifie IARC: International Agency f	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.