

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

CZ0647 - Feruloyl esterase 1A, Bacteroide reticulotermitis

Date of	compilation: 23/06/2	020 Revised: 12/10/2023 Version: 2 (Replaced 1)		
SECT	FION 1: IDENTIFI	CATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING		
1.1	Product identifie	r: CZ0647 - Feruloyl esterase 1A, <i>Bacteroide reticulotermitis</i>		
		Glycerol		
	CAS:	56-81-5		
	EC:	200-289-5		
	Index:	Non-applicable		
	REACH:	01-2119471987-18-XXXX		
	Other means of i	dentification:		
	Non-applicable			
1.2	Relevant identifie	ed uses of the substance or mixture and uses advised against:		
	Relevant uses: Lab	oratory. For professional users only.		
	Uses advised again	st: All uses not specified in this section or in section 7.3		
1.3	Details of the su	oplier of the safety data sheet:		
	NZYTech Estrada do Paco do Lumiar Campus do Lumiar - Edif. E, r/c 1649-038 Lisboa - Lisboa - Portugal info@nzytech.com www.nzytech.com			
1.4	Emergency telep	hone number: Contact Local Poison Information Center or Local Emergency Number		
SECT	FION 2: HAZARDS	IDENTIFICATION **		
2.1	Classification of	the substance or mixture:		
	CLP Regulation ((EC) No 1272/2008:		
	Classification of thi	s 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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SECTION 2: HAZARDS IDENTIFICATION ** (continued)

Product does not meet PBT/vPvB criteria

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

** Changes with regards to the previous version

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Chemical description: Mixture of substances

Components:

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

	Identification	Chemical name/Classification			
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) (2)	1 - <2,5 %

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

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

3.2 Mixture:

Non-applicable

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

Identification	Acu	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



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e or c	compilation: 23/06/2020	Revised: 12/10,	/2023 Ve	ersion: 2 (Replace	ed 1)		
SECT	TON 7: HANDLING AND	STORAGE (contin	nued)				
	Product is non-flamma to avoid the generatio conditions and materia C Technical recommenda	n of electrostatic ch als that should be av	arges that can a voided.	ffect flammable p			
	PREGNANT WOMEN SI necessary safety condi equipment, especially drink during the proce D Technical recommenda	itions (emergency s on the hands and fao ss, washing hands a	howers and eyev ce (See section 8 afterwards with s	vash stations in c). Limit manual tr	close proximity), ransfers to small	using persona	al protection
	It is recommended to h	nave absorbent mate	erial available at o	close proximity to	the product (Se	e subsection 6	.3)
7.2	Conditions for safe stor	age, including any	/ incompatibilit	es:			
	A Technical measures for	r storage					
	Store in a cool, dry, we	II-ventilated location	ו				
	B General conditions for	storage					
	Avoid sources of heat,	radiation, static elec	tricity and contact	ct with food. For a	additional inform	ation see subs	ection 10.5
7.3	Specific end use(s):						
	Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.						
	product.						
	product.						
	TON 8: EXPOSURE CON Control parameters: Substances whose occupation	tional exposure limit	s have to be mor	itored in the wor			ntry-specific
	TON 8: EXPOSURE CON Control parameters: Substances whose occupa	tional exposure limit	s have to be mor	nitored in the wor	ed in the product	:	
	TON 8: EXPOSURE CON Control parameters: Substances whose occupatilegislation): There are no applicable oc DNEL (Workers):	tional exposure limit cupational exposure	s have to be mor	hitored in the wor ostances containe Short	ed in the product	Lo	ng exposure
	TON 8: EXPOSURE CON Control parameters: Substances whose occupar legislation): There are no applicable oc DNEL (Workers): Identific	tional exposure limit cupational exposure	s have to be mor	nitored in the wor pstances containe Short Systemic	ed in the product exposure Local	Lo Systemic	ng exposure
5ECT 3.1	TON 8: EXPOSURE CON Control parameters: Substances whose occupar legislation): There are no applicable oc DNEL (Workers): Identific Imidazole	tional exposure limit cupational exposure	s have to be mor limits for the sul	nitored in the wor postances containe Short Systemic Non-applicable	ed in the product exposure Local Non-applicable	Lo Systemic Non-applicable	ng exposure Local Non-applicable
	TON 8: EXPOSURE CON Control parameters: Substances whose occupated legislation): There are no applicable oc DNEL (Workers): Identific Imidazole CAS: 288-32-4	tional exposure limit cupational exposure	s have to be mor limits for the sul Oral Dermal	hitored in the wor ostances containe Short Systemic Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	Lo Systemic Non-applicable 1,5 mg/kg	ng exposure Local Non-applicable Non-applicable
	TION 8: EXPOSURE CON Control parameters: Substances whose occupatilegislation): There are no applicable oc DNEL (Workers): Identific Imidazole CAS: 288-32-4 EC: 206-019-2	tional exposure limit cupational exposure ation	s have to be mor limits for the sul	nitored in the wor pstances containe Short Systemic Non-applicable	ed in the product exposure Local Non-applicable	Lo Systemic Non-applicable	ng exposure Local Non-applicable
	TON 8: EXPOSURE CON Control parameters: Substances whose occupar legislation): There are no applicable oc DNEL (Workers): Identific Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population)	tional exposure limit cupational exposure ation	s have to be mor limits for the sul Oral Dermal	hitored in the wor ostances containe Short Systemic Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	Lo Systemic Non-applicable 1,5 mg/kg	ng exposure Local Non-applicable Non-applicable
	TON 8: EXPOSURE CON Control parameters: Substances whose occupatilegislation): There are no applicable oc DNEL (Workers): Identific Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population Non-applicable	tional exposure limit cupational exposure ation	s have to be mor limits for the sul Oral Dermal	hitored in the wor ostances containe Short Systemic Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	Lo Systemic Non-applicable 1,5 mg/kg	ng exposure Local Non-applicable Non-applicable
	TON 8: EXPOSURE CON Control parameters: Substances whose occupatilegislation): There are no applicable oc DNEL (Workers): Identific Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population Non-applicable PNEC:	tional exposure limit cupational exposure ation on):	s have to be mor limits for the sul Oral Dermal	hitored in the wor ostances containe Short Systemic Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	Lo Systemic Non-applicable 1,5 mg/kg	ng exposure Local Non-applicable Non-applicable
	ION 8: EXPOSURE CON Control parameters: Substances whose occupated in the sector of t	tional exposure limit cupational exposure ation on):	s have to be mor limits for the sul Oral Dermal	hitored in the wor ostances containe Short Non-applicable Non-applicable	ed in the product	Lo Systemic Non-applicable 1,5 mg/kg	ng exposure Local Non-applicable Non-applicable Non-applicable
	TON 8: EXPOSURE CON Control parameters: Substances whose occupatilegislation): There are no applicable oc DNEL (Workers): Identific Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population Non-applicable PNEC:	tional exposure limit cupational exposure ation on):	S have to be more limits for the sul	hitored in the wor ostances containe Short Systemic Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	Lo Systemic Non-applicable 1,5 mg/kg	ng exposure Local Non-applicable Non-applicable
	ION 8: EXPOSURE CON Control parameters: Substances whose occupated in the second seco	tional exposure limit cupational exposure ation on):	Shave to be more limits for the sult of th	hitored in the wor postances container Short Non-applicable Non-applicable Non-applicable	ed in the product	Lo Systemic Non-applicable 1,5 mg/kg 10,6 mg/m ³	ng exposure Local Non-applicable Non-applicable Non-applicable
3.1	ION 8: EXPOSURE CON Control parameters: Substances whose occupated in the end of the end	tional exposure limit cupational exposure ation on):	S have to be more limits for the sult of t	hitored in the wor pstances containe Systemic Non-applicable Non-applicable Non-applicable	ed in the product	Lo Systemic Non-applicable 1,5 mg/kg 10,6 mg/m ³	ng exposure Local Non-applicable Non-applicable Non-applicable 0,13 mg/L 0,013 mg/L
	TON 8: EXPOSURE CON Control parameters: Substances whose occupated and the second and t	tional exposure limit cupational exposure ation on):	S have to be mor e limits for the sul Oral Dermal Inhalation STP Soil Intermittent Oral	hitored in the wor ostances containe Short Non-applicable Non-applicable Non-applicable 10 mg/L 0,043 mg/kg 1,3 mg/L Non-applicable	ed in the product exposure Local Non-applicable Non-applicable Fresh water Marine water Sediment (Fresh	Lo Systemic Non-applicable 1,5 mg/kg 10,6 mg/m ³	ng exposure Local Non-applicable Non-applicable Non-applicable 0,13 mg/L 0,013 mg/L 0,036 mg/kg
3.1	ION 8: EXPOSURE CON Control parameters: Substances whose occupated in the end of the end	tional exposure limit cupational exposure ation on):	S have to be mor e limits for the sul Oral Dermal Inhalation STP Soil Intermittent Oral	hitored in the wor ostances containe Short Non-applicable Non-applicable Non-applicable 10 mg/L 0,043 mg/kg 1,3 mg/L Non-applicable	ed in the product exposure Local Non-applicable Non-applicable Fresh water Marine water Sediment (Fresh	Lo Systemic Non-applicable 1,5 mg/kg 10,6 mg/m ³	ng exposure Local Non-applicable Non-applicable Non-applicable 0,13 mg/L 0,013 mg/L 0,036 mg/kg

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TION	6: EXPOSURE	CONTROLS/PERSONA	AL PROTECTI	ON (continu	eu)		
	Pictogram	PPE	Labelling	CEN Sta	andard		Remarks
	Mandatory respiratory tract protection	Filter mask for gases and vapours	CAT III	EN 405:2002	2+A1:2010	cc c	place when there is a taste or smell of th 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 Sta	andard		Remarks
	Mandatory hand protection	Chemical protective gloves (Material: PVC, Breakthrough time: > 480 min, Thickness: 0.7 mm)		EN ISO 21	420:2020	Repl	ace the gloves at any sign of deterioratic
D	Eye and face prot	ection	•				
	Pictogram	PPE	Labelling	CEN Sta	andard		Remarks
	Mandatory face protection	Face shield		EN 166 EN 167 EN 168 EN 1SO 40	:2002 :2002		daily and disinfect periodically according anufacturer's instructions. Use if there risk of splashing.
E	Body protection		•				
	Pictogram	PPE	Labelling	CEN Sta	andard		Remarks
	Mandatory complete body protection	Disposable clothing for protection against chemical risks	CAT III	EN 13034:200 EN 168 EN ISO 1:2004/A EN ISO 65 EN ISO 65 EN 464	22002 13982- A1:2010 529:2013 530:2005		r professional use only. Clean periodicall ording to the manufacturer's instructions
	Mandatory foot protection	Safety footwear for protection against chemical risk	CAT III	EN ISO 20: EN 13832		Re	eplace boots at any sign of deterioration.
F	Additional emerge	ency measures					
	Emergency mea	asure Si	tandards	Em	ergency measu	Jre	Standards
	Emergency sho	ISO 3864-1:20	SI Z358-1)11, ISO 3864-4:20		yewash station	าร	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
En	vironmental exp	osure controls:					
In a spil	accordance with th	e community legislation product and its container	•				nmended to avoid environmental D
	-	ive 2010/75/EU, this proc	duct has the fol	lowing charact	eristics:		
	V.O.C. (Supply):		weight				
	V.O.C. density at	-	′m³ (0 g/L)				
	Average carbon r		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	6 (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/m³	
Relative density at 20 o		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		Non-applicable *	
Solubility in water at 20) °C:	Non-applicable *	
Solubility properties:		Non-applicable *	
Decomposition tempera		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 characteristi			
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 eristics:	Non-applicable *	
Surface tension at 20 °		Non-applicable *	
	ure of the product, not providing info		

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SECT	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						
	Reactivity:						
	-	expected because the p	roduct is stable under recon	nmended storage condit	ions. See section 7 from		
	Chemically stable under the	indicated conditions of	storage, handling and use.				
10.3	Possibility of hazardous	reactions:					
	Under the specified condition	ons, hazardous reactions	that lead to excessive temp	eratures or pressure are	not expected.		
10.4	Conditions to avoid:						
	Applicable for handling and	storage at room temper	ature:				
	Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity		
	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable		
	Not applicable	10.5 Incompatible materials:					
10.5	· · ·						
10.5	· · ·	Water	Oxidising materials	Combustible materials	Others		

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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SECTION 11: TOXICOLOGICAL INFORMATION (continued) E - Sensitzing effects: - Respiratory: 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. - Sim:: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3. F - Specific target organ toxicly (STOT) -respetted 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 toxicly (STOT) -respetted exposure: - Socific target organ toxicly (STOT) -respetted exposure: - Socific target organ toxicly (STOT) -respetted exposure: - Specific target organ toxicly (STOT) -respetted exposure: - Socific target organ toxicly (STOT) -respetted 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. 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. Ubter information Mor-applicable Specific toxicology information on the substances: <t< th=""><th>Date of c</th><th>ompilation: 23/06/2020 Revised: 12/10/2023 Version: 2 (R</th><th>eplaced 1)</th><th></th><th></th></t<>	Date of c	ompilation: 23/06/2020 Revised: 12/10/2023 Version: 2 (R	eplaced 1)			
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- 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

CZ0647 - Feruloyl esterase 1A, Bacteroide reticulotermitis

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
	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	
	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

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NZYtech

CZ0647 - Feruloyl esterase 1A, Bacteroide reticulotermitis

Date of compilation:	Date of compilation: 23/06/2020 Revised: 12/1		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:

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

tricks and jokes,

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

Specific provisions in terms of protecting people or the environment:

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

Other legislation:

The product could be affected by sectorial legislation

15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

SECTION 16: OTHER INFORMATION **

Legislation related to safety data sheets:

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

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

** Changes with regards to the previous version

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CZ0647 - Feruloyl esterase 1A, Bacteroide reticulotermitis

Date of compilation: 23/06/2020	Revised: 12/10/2023	Version: 2 (Replaced 1)
SECTION 16: OTHER INFORMAT	TION ** (continued)	
COMMISSION REGULATION (E CLP Regulation (EC) No 1272/ · Hazard statements	2008 (SECTION 2, SECTI	
Texts of the legislative pho H315: Causes skin irritation. H360D: May damage the unbo H319: Causes serious eye irri	orn child.	ction 2:
Texts of the legislative phi	ases mentioned in sec	ction 3:
The phrases indicated do not individual components which		; they are present merely for informative purposes and refer to the
CLP Regulation (EC) No 12	72/2008:	
Acute Tox. 4: H302 - Harmful		
Eye Dam. 1: H318 - Causes s Repr. 1B: H360D - May damag		
Skin Corr. 1C: H314 - Causes		e damage
Advice related to training:		
-		risks for staff using this product and to facilitate their comprehension and label on the product.
Principal bibliographical so		
http://echa.europa.eu		
http://eur-lex.europa.eu		
Abbreviations and acronyn	IS:	
		al carriage of dangerous goods by road
IMDG: International maritime		
IATA: International Air Trans		
COD: Chemical Oxygen Dema	2	
BOD5: 5day biochemical oxygen		
BCF: Bioconcentration factor		
LD50: Lethal Dose 50		
LC50: Lethal Concentration 5	-	
EC50: Effective concentration		
LogPOW: Octanolwater partiti Koc: Partition coefficient of o		
UFI: unique formula identifier		
IARC: International Agency fo		

** 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.