Safety data sheet legislation

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

CZ0662 - Feruloyl esterase 1A, Pelagibacter halotolerans

Date of	compilation: 23/06/2	2020 Revised: 12/10/2023 Version: 2 (Replaced 1)		
SEC	TION 1: IDENTIFI	CATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING		
1.1	Product identifie	er: CZ0662 - Feruloyl esterase 1A, <i>Pelagibacter halotolerans</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 identifi	ed uses of the substance or mixture and uses advised against:		
	Relevant uses: Lab	poratory. For professional users only.		
	Uses advised agair	nst: All uses not specified in this section or in section 7.3		
1.3	Details of the su	pplier 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		
SEC	TION 2: HAZARDS	S IDENTIFICATION **		
2.1	Classification of	the substance or mixture:		
	CLP Regulation	(EC) No 1272/2008:		
	-			

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

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

2.2 Label elements:

CLP Regulation (EC) No 1272/2008:

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

Danger



Hazard statements:

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

Precautionary statements:

P201: Obtain special instructions before use.

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

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

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

Substances that contribute to the classification

Imidazole (CAS: 288-32-4)

Additional Labelling:

Restricted to professional users

2.3 **Other hazards:**

** Changes with regards to the previous version

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

legislation

CZ0662 - Feruloyl esterase 1A, Pelagibacter halotolerans

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	(I) (I) (I) (I) (I) (I) (I) (I) (I) (I)	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 NZYtech

legislation

CZ0662 - Feruloyl esterase 1A, Pelagibacter halotolerans

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

_							
	compilation: 23/06/2020	Revised: 12/10/2		ersion: 2 (Replace	d 1)		
ECT	TON 7: HANDLING AND	STORAGE (contin	ued)				
	Product is non-flammal to avoid the generatior conditions and materia C Technical recommendat	n of electrostatic cha Is that should be ave	rges that can a pided.	ffect flammable p			
 PREGNANT WOMEN SHOULD NOT BE EXPOSED TO THIS PRODUCT. Transfer in designated areas that comply with necessary safety conditions (emergency showers and eyewash stations in close proximity), using personal protection equipment, especially on the hands and face (See section 8). Limit manual transfers to small amounts only. Do not early drink during the process, washing hands afterwards with suitable cleaning products. D Technical recommendations to prevent environmental risks 					al protection		
	It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)				5.3)		
2	Conditions for safe stora	age, including any	incompatibilit	ies:			
A Technical measures for storage							
Store in a cool, dry, well-ventilated location							
	B General conditions for	storage					
	Avoid sources of heat,	radiation, static elect	ricity and conta	ct with food. For a	additional inform	ation see sub	section 10.5
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.						
	TON 8: EXPOSURE CON Control parameters: Substances whose occupat				kplace (Europea	n OEL, not co	untry-specific
	TON 8: EXPOSURE CON Control parameters: Substances whose occupat legislation): There are no applicable occ	tional exposure limits	have to be mo	nitored in the worl			untry-specific
	TON 8: EXPOSURE CON Control parameters: Substances whose occupat legislation):	tional exposure limits	have to be mo	nitored in the worl	ed in the product		
	TON 8: EXPOSURE CON Control parameters: Substances whose occupat legislation): There are no applicable occ DNEL (Workers):	tional exposure limits	have to be mo	nitored in the worl bstances containe Short	ed in the product	Lo	ong exposure
ECT 1	TON 8: EXPOSURE CON Control parameters: Substances whose occupat legislation): There are no applicable occ DNEL (Workers): Identifica	tional exposure limits	have to be mo	nitored in the worl bstances containe Short Systemic	ed in the product exposure Local	Lo Systemic	ong exposure
	TON 8: EXPOSURE CON Control parameters: Substances whose occupat legislation): There are no applicable occ DNEL (Workers):	tional exposure limits	have to be mor	nitored in the worl bstances containe Short	ed in the product	Lo	ong exposure
	TON 8: EXPOSURE CON Control parameters: Substances whose occupat legislation): There are no applicable occ DNEL (Workers): Identifica Imidazole	tional exposure limits	have to be moi imits for the su Oral	nitored in the worl bstances containe Short Systemic Non-applicable	ed in the product exposure Local Non-applicable	Lc Systemic Non-applicable	bing exposure Local Non-applicable
	TON 8: EXPOSURE CON Control parameters: Substances whose occupat legislation): There are no applicable occ DNEL (Workers): Identifica Imidazole CAS: 288-32-4	cional exposure limits cupational exposure l ation	have to be mo imits for the su Oral Dermal	hitored in the worl bstances containe Short Systemic Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	Systemic Non-applicable 1,5 mg/kg	bong exposure Local Non-applicable Non-applicable
_	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	cional exposure limits cupational exposure l ation	have to be mo imits for the su Oral Dermal	hitored in the worl bstances containe Short Systemic Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	Systemic Non-applicable 1,5 mg/kg	bong exposure Local Non-applicable Non-applicable
_	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	cional exposure limits cupational exposure l ation	have to be mo imits for the su Oral Dermal	hitored in the worl bstances containe Short Systemic Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	Systemic Non-applicable 1,5 mg/kg	bong exposure Local Non-applicable Non-applicable
_	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	cional exposure limits cupational exposure l ation bn):	have to be mo imits for the su Oral Dermal	hitored in the worl bstances containe Short Systemic Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	Systemic Non-applicable 1,5 mg/kg	bong exposure Local Non-applicable Non-applicable
_	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	cional exposure limits cupational exposure l ation bn):	have to be mor imits for the su Oral Dermal Inhalation	hitored in the worl bstances containe Short Systemic Non-applicable Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable Fresh water	Systemic Non-applicable 1,5 mg/kg	Image: Description of exposure Local Non-applicable Non-applicable Non-applicable
_	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	cional exposure limits cupational exposure l ation bn):	have to be mor imits for the su Oral Dermal Inhalation	hitored in the worl bstances containe Short Systemic Non-applicable Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable Non-applicable	Lcc Systemic Non-applicable 1,5 mg/kg 10,6 mg/m ³	Image: ong exposure Local Non-applicable Non-applicable Non-applicable 0,13 mg/L
_	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	cional exposure limits cupational exposure l ation bn):	have to be mor imits for the su Oral Dermal Inhalation	hitored in the worl bstances containe Short Systemic Non-applicable Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable Fresh water	Non-applicable 1,5 mg/kg 10,6 mg/m ³	Image: Description of exposure Local Non-applicable Non-applicable Non-applicable
1	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	cional exposure limits cupational exposure l ation bn):	have to be mor imits for the su Oral Dermal Inhalation STP Soil Intermittent	hitored in the worl bstances containe Short Systemic Non-applicable Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable Non-applicable Fresh water Sediment (Fresh	Non-applicable 1,5 mg/kg 10,6 mg/m ³	Image: Non-applicable Non-applicable Non-applicable Non-applicable 0,13 mg/L 0,336 mg/kg
	TON 8: EXPOSURE CON Control parameters: Substances whose occupatilegislation): There are no applicable occ DNEL (Workers): Identifica Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population Non-applicable PNEC: Imidazole CAS: 288-32-4 EC: 206-019-2	cional exposure limits cupational exposure l ation bn):	have to be mon imits for the su Oral Dermal Inhalation STP Soil Intermittent Oral	hitored in the worl bostances containe Short Systemic Non-applicable Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable Non-applicable Fresh water Sediment (Fresh	Non-applicable 1,5 mg/kg 10,6 mg/m ³	Image: Non-applicable Non-applicable Non-applicable Non-applicable 0,13 mg/L 0,336 mg/kg

NZYtech

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

CZ0662 - Feruloyl esterase 1A, Pelagibacter halotolerans

TION	8: EXPOSURE	CONTROLS/PERSONA	AL PROTECTION	ON (continued)		
ļ	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 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 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 deteriorati
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 accordin 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	CAT III	EN 13034:2005+A1:2009 EN 168:2002 EN ISO 13982- 1:2004/A1:2010 EN ISO 6529:2013 EN ISO 6530:2005 EN 464:1994		r professional use only. Clean periodical 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	tandards	Emergency measu	ure	Standards
	Emergency sho	ISO 3864-1:20	ISI Z358-1 011, ISO 3864-4:20	111 Eyewash station	IS	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:201:
Env	vironmental exp	osure controls:		•		•
In a spill Vol a	accordance with the plage of both the plattice organic con	ne community legislation product and its container mpounds:	. For additional	information see subsecti		nmended to avoid environmental .D
With	h regard to Directi	ive 2010/75/EU, this pro	duct has the foll	lowing characteristics:		
,	V.O.C. (Supply):	0 %	weight			
	V.O.C. density at	20 °C: 0 kg/	/m³ (0 g/L)			

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

NZYtech

CZ0662 - Feruloyl esterase 1A, Pelagibacter halotolerans

Date of	compilation: 23/06/2020 Revised: 12/10/2023	Version: 2 (Replaced 1)
SECT	TION 9: PHYSICAL AND CHEMICAL PROPERTIES	6 (continued)
	For complete information 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 atmospheric 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 °C:	1,111
	Dynamic viscosity at 20 °C:	Non-applicable *
	Kinematic viscosity at 20 °C:	Non-applicable *
	Kinematic viscosity at 40 °C:	Non-applicable *
	Concentration:	Non-applicable *
	pH:	7,2
	Vapour density at 20 °C:	Non-applicable *
	Partition coefficient n-octanol/water 20 °C:	Non-applicable *
	Solubility in water at 20 °C:	Non-applicable *
	Solubility properties:	Non-applicable *
	Decomposition temperature:	Non-applicable *
	Melting point/freezing point:	Non-applicable *
	Flammability:	
	Flash Point:	Non Flammable (>60 °C)
	Flammability (solid, gas):	Non-applicable *
	Autoignition temperature:	480 °C
	Lower flammability limit:	Non-applicable *
	Upper flammability limit:	Non-applicable *
	Particle characteristics:	
	Median equivalent diameter:	Non-applicable
9.2	Other information:	
	Information with regard to physical hazard class	
	Explosive properties:	Non-applicable *
	Oxidising properties: Corrosive to metals:	Non-applicable * Non-applicable *
	Heat of combustion:	Non-applicable *
	Aerosols-total percentage (by mass) of flammable	Non-applicable *
	components:	ноп аррісаріс
	Other safety characteristics:	
	Surface tension at 20 °C:	Non-applicable *
	*Not relevant due to the nature of the product, not providing inform	mation property of its hazards.

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

CZ0662 - Feruloyl esterase 1A, Pelagibacter halotolerans

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 inf	ormation property of its hazards.				
SECTION 10: STABILITY AND REACTIVITY							
10.1 Reactivity:							
	No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet. 2 Chemical stability:						
	Chemically stable under the	e indicated conditions of s	torage, 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.		
L 0.4	Conditions to avoid:						
	Applicable for handling and	storage at room tempera	ature:				
	Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity		
	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable		
L 0.5	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						

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

CZ0662 - Feruloyl esterase 1A, Pelagibacter halotolerans

Date of c	ompilation: 23/06/2020	Revised: 12/10/2023	Version: 2 (Re	placed 1)					
SECT	ION 11: TOXICOLOGICAL	. INFORMATION (continued	d)						
	E- Sensitizing effects:								
	 Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3. Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3. F- Specific target organ toxicity (STOT) - single exposure: 								
	Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3. G- Specific target organ toxicity (STOT)-repeated exposure:								
	 Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3. Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3. Aspiration hazard: 								
	Based on available data, this effect. For more info Other information:	the classification criteria are no prmation see section 3.	ot met, as it does	s not contain subs	tances classified as haz	ardous for			
	Non-applicable								
	Specific toxicology inform	nation on the substances:							
		Identification		Acu	te toxicity	Genus			
	Imidazole			LD50 oral	500 mg/kg (ATEi)				
	CAS: 288-32-4 EC: 206-019-2			LD50 dermal	>2000 mg/kg				
11.2	Information on other haz	zards		LC50 inhalation	>5 mg/L				
	Endocrine disrupting prop								
		ies: The product does not meet	the criteria						
	Other information		the chiena.						
	Non-applicable								
	Погаррісавіе								
CECT									
SECT	ION 12: ECOLOGICAL INF	FORMATION							
The e	perimental information relate	d to the eco-toxicological prope	erties of the proc	duct itself is not av	vailable				
For m	on available data, the classific ore information see section 3 Toxicity:	cation criteria are not met, as it	does not conta	in substances clas	sified as hazardous for	this effect.			
	Not available								
12.2	Persistence and degradab	bility:							
	Not available								
12.3	Bioaccumulative potential:								
	Bioaccumulative potentia	l:				Not available			
	•	l:							
12.4	•	l:							
12.4	Not available	I:							
	Not available Mobility in soil:								
	Not available Mobility in soil: Not available	assessment:							
12.5	Not available Mobility in soil: Not available Results of PBT and vPvB a	assessment: vPvB criteria							
12.5	Not available Mobility in soil: Not available Results of PBT and vPvB a Product does not meet PBT/v Endocrine disrupting prop	assessment: vPvB criteria	t the criteria.						
12.5 12.6	Not available Mobility in soil: Not available Results of PBT and vPvB a Product does not meet PBT/v Endocrine disrupting prop	assessment: vPvB criteria perties:	t the criteria.						
12.5 12.6	Not available Mobility in soil: Not available Results of PBT and vPvB a Product does not meet PBT/v Endocrine disrupting propert	assessment: vPvB criteria perties:	the criteria.						

- 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

CZ0662 - Feruloyl esterase 1A, Pelagibacter halotolerans

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

Revised: 12/10/2023

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

CZ0662 - Feruloyl esterase 1A, Pelagibacter halotolerans

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

CZ0662 - Feruloyl esterase 1A, Pelagibacter halotolerans

Date of compilation: 23/06/2020	Revised: 12/10/2023	Version: 2 (Replaced 1)
SECTION 16: OTHER INFORMA	TION ** (continued)	
COMMISSION REGULATION (CLP Regulation (EC) No 1272/ · Hazard statements	2008 (SECTION 2, SECTI	
Texts of the legislative ph H315: Causes skin irritation. H360D: May damage the unb H319: Causes serious eye irri	orn child.	tion 2:
Texts of the legislative ph	rases mentioned in sec	tion 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	272/2008:	
Acute Tox. 4: H302 - Harmful	if swallowed.	
Eye Dam. 1: H318 - Causes s		
Repr. 1B: H360D - May dama		
Skin Corr. 1C: H314 - Causes	,	e damage.
Advice related to training:		ricks for staff using this product and to facilitate their comprehension and
interpretation of this safety d	ata sheet, as well as the	risks for staff using this product and to facilitate their comprehension and label on the product.
Principal bibliographical se	ources:	
http://echa.europa.eu		
http://eur-lex.europa.eu		
Abbreviations and acronyn		
		I carriage of dangerous goods by road
IMDG: International maritime		
IATA: International Air Trans ICAO: International Civil Aviat		
COD: Chemical Oxygen Dema	5	
BOD5: 5day biochemical oxyg		
BCF: Bioconcentration factor		
LD50: Lethal Dose 50		
LC50: Lethal Concentration 5	•	
EC50: Effective concentration		
LogPOW: Octanolwater partit		
Koc: Partition coefficient of o		
UFI: unique formula identifie IARC: International Agency for		

** 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.