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

NZYtech

CZ0654 - Feruloyl esterase 1B, Lactobacillus crispatus

	compilation: 23/06/20	
SEC	TION 1: IDENTIFIC	ATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1	Product identifier	: CZ0654 - Feruloyl esterase 1B, Lactobacillus crispatus
		Glycerol
	CAS:	56-81-5
	EC:	200-289-5
	Index:	Non-applicable
	REACH:	01-2119471987-18-XXXX
	Other means of id	entification:
	Non-applicable	
1.2	Relevant identifie	d uses of the substance or mixture and uses advised against:
	Relevant uses: Labo	ratory. For professional users only.
	Uses advised agains	t: All uses not specified in this section or in section 7.3
1.3	Details of the sup	plier of the safety data sheet:
	NZYTech	
	1649-038 Lisboa - L	_umiar Campus do Lumiar - Edif. E, r/c isboa - Portugal
	info@nzytech.com	
1.4	www.nzytech.com	one number: Contact Local Poison Information Center or Local Emergency Number
0.5.05		
SEC	TION 2: HAZARDS	IDENTIFICATION **
2.1	Classification of t	ne substance or mixture:
	CLP Regulation (I	EC) No 1272/2008:
	Classification of this	product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.
		ation, Category 2, H319
		tive toxicity, Category 1B, H360D ritation, Category 2, H315

2.2 Label elements:

CLP Regulation (EC) No 1272/2008:

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

Danger



Hazard statements:

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

Precautionary statements:

P201: Obtain special instructions before use.

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

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

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

Substances that contribute to the classification

Imidazole (CAS: 288-32-4)

Additional Labelling:

Restricted to professional users

2.3 Other hazards:

** Changes with regards to the previous version

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SECTION 2: HAZARDS IDENTIFICATION ** (continued)

Product does not meet PBT/vPvB criteria

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

Revised: 12/10/2023

** Changes with regards to the previous version

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Chemical description: Mixture of substances

Components:

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

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

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

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

3.2 Mixture:

Non-applicable

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

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

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

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

By inhalation:

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

By skin contact:

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

By eve contact:

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

By ingestion/aspiration:

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

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

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

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

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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 legislation

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SECTION 7: HANDLING AND STORAGE (continued)

Product is non-flammable under normal conditions of storage, handling and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

PREGNANT WOMEN SHOULD NOT BE EXPOSED TO THIS PRODUCT. Transfer in designated areas that comply with the 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 eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Store in a cool, dry, well-ventilated location

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

7.2

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 **Control parameters:**

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):

There are no applicable occupational exposure limits for the substances contained in the product

DNEL (Workers):

		Short e	xposure	Long e	xposure
Identification		Systemic	Local	Systemic	Local
Imidazole	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 288-32-4	Dermal	Non-applicable	Non-applicable	1,5 mg/kg	Non-applicable
EC: 206-019-2	Inhalation	Non-applicable	Non-applicable	10,6 mg/m ³	Non-applicable

DNEL (General population):

Non-applicable

PNEC:

Identification				
Imidazole	STP	10 mg/L	Fresh water	0,13 mg/L
CAS: 288-32-4	Soil	0,043 mg/kg	Marine water	0,013 mg/L
EC: 206-019-2	Intermittent	1,3 mg/L	Sediment (Fresh water)	0,336 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,034 mg/kg

8.2 **Exposure controls:**

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

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IION	8: EXPOSURE	CONTROLS/PERSONA	AL PROTECTIO	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)	CAT III	EN ISO 21420:2020	Rep	lace the gloves at any sign of deterioratio
D	Eye and face prot	ection			•	
	Pictogram	PPE	Labelling	CEN Standard		Remarks
	Mandatory face protection	Face shield	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 i risk of splashing.
E	Body protection		• • • • •			
	Pictogram	PPE	Labelling	CEN Standard		Remarks
	Mandatory complete body protection	Disposable clothing for protection against chemical risks	CAT III	EN 13034:2005+A1:2009 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	tandards	Emergency measure	ure	Standards
	Emergency sho	ISO 3864-1:20	ISI Z358-1 011, ISO 3864-4:2011	L Eyewash station	IS	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
Env	vironmental exp	osure controls:				
In a spil	accordance with th	ne community legislation product and its container	•			nmended to avoid environmental .D
	-	ive 2010/75/EU, this prod	duct has the follo	wing characteristics.		
	V.O.C. (Supply):		weight			
	V.O.C. density at		/m ³ (0 g/L)			
	Average carbon r	-	applicable			
	-		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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SECT	ION 9: PHYSICAL AND CHEMICAL PROPERTIES	S (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 clas	sses:
	Explosive properties:	Non-applicable *
	Oxidising properties:	Non-applicable *
	Corrosive to metals:	Non-applicable *
	Heat of combustion:	Non-applicable *
	Aerosols-total percentage (by mass) of flammable components: Other safety characteristics:	Non-applicable *
	Surface tension at 20 °C:	Non-applicable *
	*Not relevant due to the nature of the product, not providing info	

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SECT	ION 9: PHYSICAL AND (CHEMICAL PROPERTIE	S (continued)		
Refraction index: Non-applicable *					
	*Not relevant due to the nature o	f the product, not providing info	prmation property of its hazards.		
SECT	ION 10: STABILITY AND	REACTIVITY			
	Reactivity:				
10.2	No hazardous reactions are Safety Data Sheet. Chemical stability:	expected because the pro	oduct is stable under recon	nmended storage conditi	ions. See section 7 from
	Chemically stable under the	e indicated conditions of st	orage, handling and use.		
10.3	Possibility of hazardous	reactions:			
	Under the specified condition	ons, hazardous reactions t	hat lead to excessive temp	eratures or pressure are	not expected.
10.4	Conditions to avoid:				
	Applicable for handling and	storage at room tempera	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

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO_2), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

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

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

Dangerous health implications:

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

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

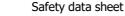
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SECT	ION 11: TOXICOLOGICAL	INFORMATION (contin	nued)			
	F- Sensitizing effects:					
	 E- Sensitizing effects: Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous 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. Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3. H- Aspiration hazard: 					
	Based on available data, t this effect. For more info Other information:	the classification criteria are rmation see section 3.	e not met, as it doe	es not contain sul	bstances classified as h	nazardous for
	Non-applicable					
	Specific toxicology inform	ation on the substances				
		Identification		A	Acute 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			LC50 inhalation	>5 mg/L	
	Endocrine-disrupting properti	e rties es: The product does not m	neet the criteria.			
	Endocrine-disrupting properti Other information Non-applicable		neet the criteria.			
	Other information Non-applicable	es: The product does not m	neet the criteria.			
SECT	Other information	es: The product does not m	neet the criteria.			
The ex Based For m	Other information Non-applicable ION 12: ECOLOGICAL INF xperimental information related on available data, the classific ore information see section 3.	es: The product does not m ORMATION d to the eco-toxicological pr cation criteria are not met, a	roperties of the pro			or this effect.
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The ex Based For m 12.1	Other information Non-applicable ION 12: ECOLOGICAL INF xperimental information related on available data, the classific ore information see section 3. Toxicity: Not available	es: The product does not m ORMATION d to the eco-toxicological pr cation criteria are not met, a	roperties of the pro			or this effect.
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The e: Based For m 12.1 12.2	Other information Non-applicable ION 12: ECOLOGICAL INF experimental information related on available data, the classific ore information see section 3. Toxicity: Not available Persistence and degradab	es: The product does not m ORMATION d to the eco-toxicological pr cation criteria are not met, a	roperties of the pro			or this effect.
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The ex Based For m 12.1 12.2 12.3	Other information Non-applicable ION 12: ECOLOGICAL INF experimental information related on available data, the classific ore information see section 3. Toxicity: Not available Persistence and degradab Not available Bioaccumulative potential	es: The product does not m ORMATION d to the eco-toxicological pr cation criteria are not met, a	roperties of the pro			or this effect.
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The ex Based For m 12.1 12.2 12.3 12.4	Other information Non-applicable ION 12: ECOLOGICAL INF experimental information related on available data, the classific ore information see section 3. Toxicity: Not available Persistence and degradab Not available Bioaccumulative potential Not available Mobility in soil:	es: The product does not m ORMATION d to the eco-toxicological pr cation criteria are not met, a ility: :	roperties of the pro			or this effect.
The ex Based For m 12.1 12.2 12.3 12.4	Other information Non-applicable ION 12: ECOLOGICAL INF EXperimental information related on available data, the classific ore information see section 3. Toxicity: Not available Persistence and degradab Not available Bioaccumulative potential Not available Mobility in soil: Not available	es: The product does not m ORMATION d to the eco-toxicological pr cation criteria are not met, a ility:	roperties of the pro			or this effect.
The ex Based For m 12.1 12.2 12.3 12.4 12.5	Other information Non-applicable ION 12: ECOLOGICAL INF experimental information related on available data, the classific ore information see section 3. Toxicity: Not available Persistence and degradab Not available Bioaccumulative potential Not available Mobility in soil: Not available Results of PBT and vPvB a	es: The product does not m ORMATION d to the eco-toxicological pr cation criteria are not met, a ility: is assessment: PVB criteria	roperties of the pro			or this effect.
The ex Based For m 12.1 12.2 12.3 12.4 12.5	Other information Non-applicable ION 12: ECOLOGICAL INF Experimental information related on available data, the classific ore information see section 3. Toxicity: Not available Persistence and degradab Not available Bioaccumulative potential Not available Mobility in soil: Not available Results of PBT and vPvB a Product does not meet PBT/v	es: The product does not m ORMATION d to the eco-toxicological pr cation criteria are not met, a ility: I: PVB criteria erties:	roperties of the pro as it does not conta			or this effect.
The ex Based For m 12.1 12.2 12.3 12.4 12.5 12.6	Other information Non-applicable ION 12: ECOLOGICAL INF EXperimental information related on available data, the classific ore information see section 3. Toxicity: Not available Persistence and degradab Not available Bioaccumulative potential Not available Mobility in soil: Not available Results of PBT and vPvB a Product does not meet PBT/v Endocrine disrupting prop	es: The product does not m ORMATION d to the eco-toxicological pr cation criteria are not met, a ility: I: PVB criteria erties:	roperties of the pro as it does not conta			or this effect.
The ex Based For m 12.1 12.2 12.3 12.4 12.5 12.6	Other information Non-applicable ION 12: ECOLOGICAL INF experimental information related on available data, the classific ore information see section 3. Toxicity: Not available Persistence and degradab Not available Bioaccumulative potential Not available Mobility in soil: Not available Results of PBT and vPvB a Product does not meet PBT/v Endocrine disrupting properti	es: The product does not m ORMATION d to the eco-toxicological pr cation criteria are not met, a ility: I: PVB criteria erties:	roperties of the pro as it does not conta			or this effect.

6/2020 Revised: 12/10/2023

Version: 2 (Replaced 1)



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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:

Limited quantities: Non-applicable 14.7 Maritime transport in bulk according to IMO instruments: Transport of dangerous goods by sea: With regard 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 14.4 Packing group: 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: Transport of dangerous goods by air:	14.2 14.3 14.4 14.5	Labels: Packing group: Environmental hazards: Special precautions for user Special regulations: Tunnel restriction code: Physico-Chemical properties:	Non-applicable Non-applicable Non-applicable Non-applicable Non-applicable No Non-applicable see section 9
With regard to IMDG 40-20:14.1UN number or ID number:Non-applicable14.2UN proper shipping name:Non-applicable14.3Transport hazard class(es):Non-applicable14.3Transport hazard class(es):Non-applicable14.4Packing group:Non-applicable14.5Marine pollutant:No14.6Special precautions for userSpecial regulations:Non-applicableEmS Codes:Physico-Chemical properties:see section 9Limited quantities:Non-applicableSegregation group:Non-applicable14.7Maritime transport in bulk according to IMO instruments:Non-applicable	14.7	Maritime transport in bulk according to IMO	
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14.2UN proper shipping name:Non-applicable14.3Transport hazard class(es):Non-applicable14.4Packing group:Non-applicable14.4Packing group:Non-applicable14.5Marine pollutant:No14.6Special precautions for user Special regulations:Non-applicableEmS Codes:Non-applicablePhysico-Chemical properties:see section 9 Limited quantities:Segregation group:Non-applicable14.7Maritime transport in bulk according to IMO instruments:Non-applicable	With rega	rd to IMDG 40-20:	
14.3Transport hazard class(es): Labels:Non-applicable Non-applicable14.4Packing group: Packing group:Non-applicable14.5Marine pollutant: Special precautions for user Special regulations:No14.6Special precautions for user Special regulations:Non-applicableEmS Codes: Physico-Chemical properties: Segregation group:see section 9 Non-applicable14.7Maritime transport in bulk according to IMO instruments:Non-applicable	14.1	UN number or ID number:	Non-applicable
Labels:Non-applicable14.4Packing group:Non-applicable14.5Marine pollutant:No14.6Special precautions for userSpecial regulations:Non-applicableEmS Codes:Physico-Chemical properties:see section 9Limited quantities:Non-applicableSegregation group:Non-applicable14.7Maritime transport in bulk according to IMO instruments:Non-applicable	14.2	UN proper shipping name:	Non-applicable
14.4 Packing group: Non-applicable 14.5 Marine pollutant: No 14.6 Special precautions for user Special regulations: Special regulations: Non-applicable EmS Codes: Physico-Chemical properties: Physico-Chemical properties: see section 9 Limited quantities: Non-applicable Segregation group: Non-applicable 14.7 Maritime transport in bulk according to IMO instruments:	14.3	Transport hazard class(es):	Non-applicable
14.5Marine pollutant:No14.6Special precautions for userNon-applicableSpecial regulations:Non-applicableEmS Codes:Physico-Chemical properties:see section 9Limited quantities:Non-applicableSegregation group:Non-applicable14.7Maritime transport in bulk according to IMO instruments:Non-applicable		2000.00	
14.6Special precautions for user Special regulations:Non-applicableSpecial regulations:Non-applicableEmS Codes:Physico-Chemical properties:Physico-Chemical properties:see section 9Limited quantities:Non-applicableSegregation group:Non-applicable14.7Maritime transport in bulk according to IMO instruments:Non-applicable	14.4	Packing group:	Non-applicable
Special regulations: Non-applicable EmS Codes: Physico-Chemical properties: see section 9 Limited quantities: Non-applicable Segregation group: Non-applicable 14.7 Maritime transport in bulk Non-applicable according to IMO instruments:	14.5	Marine pollutant:	No
EmS Codes: Physico-Chemical properties: see section 9 Limited quantities: Non-applicable Segregation group: Non-applicable 14.7 Maritime transport in bulk Non-applicable according to IMO instruments:	14.6	Special precautions for user	
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		Special regulations:	Non-applicable
Limited quantities: Non-applicable Segregation group: Non-applicable 14.7 Maritime transport in bulk Non-applicable according to IMO instruments:		EmS Codes:	
Segregation group: Non-applicable 14.7 Maritime transport in bulk Non-applicable according to IMO instruments: Non-applicable		Physico-Chemical properties:	see section 9
14.7 Maritime transport in bulk Non-applicable according to IMO instruments:		Limited quantities:	Non-applicable
according to IMO instruments:		Segregation group:	Non-applicable
Transport of dangerous goods by air:	14.7	according to IMO	Non-applicable
	Transpo	rt of dangerous goods by air:	

Safety data sheet legislation

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

CZ0654 - Feruloyl esterase 1B, Lactobacillus crispatus

Date of compilation:	23/06/2020 Revised: 12/	10/2023	Version: 2 (Replaced 1)		
SECTION 14: TRANSPORT INFORMATION (continued)					
With regard to IATA/ICAO 2023:					
14.1	UN number or ID number:	Non-applicable			
14.2	UN proper shipping name:	Non-applicable			
14.3	Transport hazard class(es):	Non-applicable			
	Labels:	Non-applicable			
14.4	Packing group:	Non-applicable			
14.5	Environmental hazards:	No			
14.6	Special precautions for user				
	Physico-Chemical properties:	see section 9			
14.7	Maritime transport in bulk according to IMO instruments:	Non-applicable			

SECTION 15: REGULATORY INFORMATION

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

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

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

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

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

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

Seveso III:

Non-applicable

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

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

Shall not be used in:

and ashtravs.

-tricks and jokes,

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

Specific provisions in terms of protecting people or the environment:

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

Other legislation:

The product could be affected by sectorial legislation

15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

SECTION 16: OTHER INFORMATION **

Legislation related to safety data sheets:

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

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

** Changes with regards to the previous version

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

CZ0654 - Feruloyl esterase 1B, Lactobacillus crispatus

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 Texts of the legislative pl	2/2008 (SECTION 2, SECTI					
H315: Causes skin irritation. H360D: May damage the un H319: Causes serious eye ir						
Texts of the legislative pl	hrases mentioned in sec	tion 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 - Harmfr Eye Dam. 1: H318 - Causes Repr. 1B: H360D - May dam Skin Corr. 1C: H314 - Cause	ul if swallowed. serious eye damage. age the unborn child.	e damage.				
Advice related to training	, 5					
Training is recommended in	Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.					
Principal bibliographical sources:						
http://echa.europa.eu						
http://eur-lex.europa.eu	http://eur-lex.europa.eu					
Abbreviations and acronyms:						
IMDG: International maritim IATA: International Air Tran	ADR: European agreement concerning the international carriage of dangerous goods by road IMDG: International maritime dangerous goods code IATA: International Air Transport Association ICAO: International Civil Aviation Organisation					
COD: Chemical Oxygen Den BOD5: 5day biochemical oxy	COD: Chemical Oxygen Demand BOD5: 5day biochemical oxygen demand BCF: Bioconcentration factor					
LD50: Lethal Dose 50						
LogPOW: Octanolwater part	EC50: Effective concentration 50 LogPOW: Octanolwater partition coefficient					
Koc: Partition coefficient of UFI: unique formula identifi 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.