

legislation

CZ0624 - Feruloyl esterase 1A, Lactobacillus kefiranofaciens

Date of	compilation: 23/06/202	20 Revised: 12/10/2023 Version: 2 (Replaced 1)		
SECT	TION 1: IDENTIFIC	ATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING		
1.1	Product identifier:	: CZ0624 - Feruloyl esterase 1A, Lactobacillus kefiranofaciens		
		Glycerol		
	CAS:	56-81-5		
	EC:	200-289-5		
	Index:	Non-applicable		
	REACH:	01-2119471987-18-XXXX		
	Other means of ide	entification:		
	Non-applicable			
1.2	Relevant identified	d uses of the substance or mixture and uses advised against:		
	Relevant uses: Labor	ratory. For professional users only.		
	Uses advised against	t: All uses not specified in this section or in section 7.3		
1.3	Details of the supp	plier 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 teleph	one number: Contact Local Poison Information Center or Local Emergency Number		
SECT	TION 2: HAZARDS 1	IDENTIFICATION **		
2.1	Classification of th	ne substance or mixture:		
	CLP Regulation (E	C) 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

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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 - <2,5 %	

⁽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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ECT	TON 7: HANDLING AND	STORAGE (continued	d)				
	Product is non-flammab to avoid the generation conditions and material C Technical recommendat	of electrostatic charge s that should be avoide	es that can af ed.	fect flammable p			
	PREGNANT WOMEN SH necessary safety condit equipment, especially o drink during the process D Technical recommendati	ons (emergency show n the hands and face (S s, washing hands after	ers and eyev See section 8) wards with s	vash stations in c). Limit manual tr	lose proximity), ansfers to small	using person	al protection
	It is recommended to ha	ve absorbent material	available at c	lose proximity to	the product (Se	e subsection (5.3)
.2	Conditions for safe stora						
A Technical measures for storage							
	Store in a cool, dry, well-ventilated location						
B General conditions for storage							
	Avoid sources of heat, r	5	ty and contac	t with food. For a	additional inform	ation see sub	section 10.5
.3	Specific end use(s):	,	,				
0	Except for the instructions a	Iready specified it is po	t necessary t	o provido apy co	ocial recommon		
						dation redardi	na the uses of th
	ION 8: EXPOSURE CONT Control parameters: Substances whose occupati legislation):	Rols/Personal Pi	ROTECTION	N		_	
	TON 8: EXPOSURE CONT Control parameters: Substances whose occupati legislation): There are no applicable occ	ROLS/PERSONAL PI	ROTECTION	N itored in the wor	kplace (Europea	n OEL, not co	
	TON 8: EXPOSURE CONT Control parameters: Substances whose occupati legislation):	ROLS/PERSONAL PI	ROTECTION	N Nitored in the wor	kplace (Europea ed in the product	n OEL, not co	untry-specific
	TON 8: EXPOSURE CONT Control parameters: Substances whose occupati legislation): There are no applicable occ	ROLS/PERSONAL Pi onal exposure limits ha	ROTECTION	litored in the wor ostances containe	kplace (Europea	n OEL, not con	untry-specific
	TION 8: EXPOSURE CONT Control parameters: Substances whose occupati legislation): There are no applicable occu DNEL (Workers):	ROLS/PERSONAL PI onal exposure limits ha upational exposure limi	ROTECTION	N Nitored in the wor	kplace (Europea ed in the product	n OEL, not co	untry-specific
	TON 8: EXPOSURE CONT Control parameters: Substances whose occupati legislation): There are no applicable occu DNEL (Workers): Identifical	ROLS/PERSONAL Pl onal exposure limits ha upational exposure limi	ROTECTION ve to be mon	itored in the wor ostances containe Short Systemic	kplace (Europea ed in the product exposure Local	n OEL, not cor	untry-specific
	TON 8: EXPOSURE CONT Control parameters: Substances whose occupati legislation): There are no applicable occi DNEL (Workers): Identificat Imidazole	ROLS/PERSONAL Pl onal exposure limits ha upational exposure limi	ROTECTION ve to be mon its for the sub	itored in the wor ostances containe Short Systemic Non-applicable	kplace (Europea ed in the product exposure Local Non-applicable	n OEL, not col	untry-specific ong exposure Local Non-applicable
	TION 8: EXPOSURE CONT Control parameters: Substances whose occupati legislation): There are no applicable occu DNEL (Workers): Identificat Imidazole CAS: 288-32-4	ROLS/PERSONAL Propose the second seco	ROTECTION ve to be mon its for the sub Oral Dermal	itored in the wor pstances containe Short Systemic Non-applicable Non-applicable	kplace (Europea ed in the product exposure Local Non-applicable Non-applicable	n OEL, not col Lc Systemic Non-applicable 1,5 mg/kg	untry-specific ong exposure Local Non-applicable Non-applicable
	TION 8: EXPOSURE CONT Control parameters: Substances whose occupati legislation): There are no applicable occu DNEL (Workers): Identificat Imidazole CAS: 288-32-4 EC: 206-019-2	ROLS/PERSONAL Propose the second seco	ROTECTION ve to be mon its for the sub Oral Dermal	itored in the wor pstances containe Short Systemic Non-applicable Non-applicable	kplace (Europea ed in the product exposure Local Non-applicable Non-applicable	n OEL, not col Lc Systemic Non-applicable 1,5 mg/kg	untry-specific ong exposure Local Non-applicable Non-applicable
	TION 8: EXPOSURE CONT Control parameters: Substances whose occupati legislation): There are no applicable occu DNEL (Workers): Identificat Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General populatio	ROLS/PERSONAL Propose the second seco	ROTECTION ve to be mon its for the sub Oral Dermal	itored in the wor pstances containe Short Systemic Non-applicable Non-applicable	kplace (Europea ed in the product exposure Local Non-applicable Non-applicable	n OEL, not col Lc Systemic Non-applicable 1,5 mg/kg	untry-specific ong exposure Local Non-applicable Non-applicable
	TON 8: EXPOSURE CONT Control parameters: Substances whose occupati legislation): There are no applicable occu DNEL (Workers): Identificat Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General populatio Non-applicable	ROLS/PERSONAL Pi onal exposure limits ha upational exposure limi ion	ROTECTION ve to be mon its for the sub Oral Dermal	itored in the wor pstances containe Short Systemic Non-applicable Non-applicable	kplace (Europea ed in the product exposure Local Non-applicable Non-applicable	n OEL, not col Lc Systemic Non-applicable 1,5 mg/kg	untry-specific ong exposure Local Non-applicable Non-applicable
	TON 8: EXPOSURE CONT Control parameters: Substances whose occupati legislation): There are no applicable occi DNEL (Workers): Identificat Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General populatio Non-applicable PNEC: Identificat Imidazole	ROLS/PERSONAL PI onal exposure limits ha upational exposure limi ion	ROTECTION ve to be mon ts for the sub Oral Dermal Inhalation	itored in the wor ostances containe Short Non-applicable Non-applicable Non-applicable	kplace (Europea ed in the product exposure Local Non-applicable Non-applicable Non-applicable	n OEL, not col Lc Systemic Non-applicable 1,5 mg/kg	untry-specific ong exposure Local Non-applicable Non-applicable 0,13 mg/L
	TON 8: EXPOSURE CONT Control parameters: Substances whose occupati legislation): There are no applicable occi DNEL (Workers): Identificat Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General populatio Non-applicable PNEC: Identificat Imidazole CAS: 288-32-4	ROLS/PERSONAL Properties of the second secon	ROTECTION ve to be mon its for the sub Oral Dermal Inhalation	itored in the wor ostances containe Short Non-applicable Non-applicable Non-applicable	kplace (Europea ed in the product exposure Local Non-applicable Non-applicable Non-applicable	n OEL, not col Systemic Non-applicable 1,5 mg/kg 10,6 mg/m ³	untry-specific ong exposure Local Non-applicable Non-applicable 0,13 mg/L 0,013 mg/L
	TON 8: EXPOSURE CONT Control parameters: Substances whose occupati legislation): There are no applicable occi DNEL (Workers): Identificat Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General populatio Non-applicable PNEC: Identificat Imidazole	ROLS/PERSONAL Properties of the second secon	ROTECTION ve to be mon ts for the sub Oral Dermal Inhalation	itored in the wor ostances containe Short Non-applicable Non-applicable Non-applicable	kplace (Europea ed in the product exposure Local Non-applicable Non-applicable Non-applicable	n OEL, not col Systemic Non-applicable 1,5 mg/kg 10,6 mg/m ³	untry-specific ong exposure Local Non-applicable Non-applicable 0,13 mg/L
.1	TON 8: EXPOSURE CONT Control parameters: Substances whose occupati legislation): There are no applicable occi DNEL (Workers): Identificat Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General populatio Non-applicable PNEC: Identificat Imidazole CAS: 288-32-4	ROLS/PERSONAL Properties of the second secon	ROTECTION ve to be mon its for the sub Oral Dermal Inhalation STP Soil Intermittent	itored in the wor pstances container Short Non-applicable Non-applicable Non-applicable 10 mg/L 0,043 mg/kg 1,3 mg/L	kplace (Europea ed in the product exposure Local Non-applicable Non-applicable Non-applicable Ron-applicable Sediment (Fresl	n OEL, not col Systemic Non-applicable 1,5 mg/kg 10,6 mg/m ³	untry-specific prog exposure Local Non-applicable Non-applicable 0,13 mg/L 0,013 mg/L 0,336 mg/kg
ECT .1	TON 8: EXPOSURE CONT Control parameters: Substances whose occupati legislation): There are no applicable occi DNEL (Workers): Identificat Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General populatio Non-applicable PNEC: Identificat Imidazole CAS: 288-32-4 EC: 206-019-2	ROLS/PERSONAL PI onal exposure limits ha upational exposure limi ion n): ion asures, such as person ure it is recommended ce with Regulation (EU) nce, class of protectior ion 7.1. All information	ROTECTION ve to be mon ts for the sub Oral Dermal Inhalation STP Soil Intermittent Oral al protective to use basic) 2016/425. F n,) consult contained h	itored in the wor ostances containe Short Systemic Non-applicable Non-applicable Non-applicable 10 mg/L 0,043 mg/kg 1,3 mg/L Non-applicable equipment Personal Protect for more information I erein is a recomm	kplace (Europea ed in the product exposure Local Non-applicable Non-applicable Non-applicable Sediment (Fresh Sediment (Marin Sediment (Marin ive Equipment, not cion on Personal eaflet provided nendation which	n OEL, not con Systemic Non-applicable 1,5 mg/kg 10,6 mg/m ³	untry-specific ong exposure Local Non-applicable Non-applicable Non-applicable 0,13 mg/L 0,013 mg/L 0,036 mg/kg 0,034 mg/kg sponding < <ce (storage="" acturer.="" for="" fror<="" more="" specification="" td="" uipment=""></ce>

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	Pictogram		PPE	Labelling		CEN Standard		Remarks
	Mandatory respiratory tract protection	Filter m	ask 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	(Material:	l protective gloves PVC, Breakthrough 80 min, Thickness: 0.7 mm)	CAT III	Eľ	NISO 21420:2020	Repl	lace the gloves at any sign of deterioration
D	Eye and face prot	ection						
	Pictogram		PPE	Labelling		CEN Standard		Remarks
	Mandatory face protection	F	Face shield	CAT II	E	EN 166:2002 EN 167:2002 EN 168:2002 N 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		able clothing for n against chemical risks		E	3034:2005+A1:2009 EN 168:2002 EN 150 13982- 1:2004/A1:2010 N ISO 6529:2013 N ISO 6530:2005 EN 464:1994		r professional use only. Clean periodicall ording to the manufacturer's instructions
	Mandatory foot protection		cy footwear for n against chemical risk	CAT III		I ISO 20345:2011 N 13832-1:2019	R	eplace boots at any sign of deterioration.
F	Additional emerge	ency mea	sures					
	Emergency mea	asure	St	andards		Emergency measu	ıre	Standards
	Emergency sho	ower		SI Z358-1 11, ISO 3864-4:201	11	Eyewash station	IS	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:201:
Env	vironmental exp	osure c	ontrols:					
spil		roduct a	nd its container.			ne environment it is nation see subsecti		nmended to avoid environmental .D
Wit	h regard to Direct	ive 2010/	75/EU, this prod	luct has the follo	owing	characteristics:		
	V.O.C. (Supply):			weight				
	V.O.C. density at		_	m³ (0 g/L)				
	Average carbon r Average molecula			applicable applicable				

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	TON 9: PHYSICAL AND CHEMICAL PROPERTIES	G (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/m ³
	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:	Nen emlieskie
9.2	Median equivalent diameter: Other information:	Non-applicable
9.2	Information with regard to physical hazard class	5001
	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	Non-applicable *
	components:	
	Other safety characteristics:	
	Surface tension at 20 °C:	Non-applicable *
	*Not relevant due to the nature of the product, not providing infor	mation property of its hazards.

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SECT	ION 9: PHYSICAL AND (CHEMICAL PROPERTIE	ES (continued)			
	Refraction index:		Non-applicable *			
	*Not relevant due to the nature of the product, not providing information property of its hazards.					
		· ···· F· · · · · · · · · · · · · · · ·				
SECT	ION 10: STABILITY AND	REACTIVITY				
10.1	Reactivity:					
10.2	 No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet. 10.2 Chemical stability: 					
	Chemically stable under the	indicated conditions of s	torage, handling and use.			
10.3	Possibility of hazardous	reactions:				
	Under the specified condition	ons, hazardous reactions	that lead to excessive temp	eratures or pressure are	not expected.	
10.4	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	
10.5	10.5 Incompatible materials:					
	Acids	Water	Oxidising materials	Combustible materials	Others	
	Avoid strong acids	Not applicable	Precaution	Not applicable	Avoid alkalis or strong bases	
10.6	Hazardous decompositio	on products:				
	See subsection 10.3, 10.4 a complex mixtures of chemic					

SECTION 11: TOXICOLOGICAL INFORMATION

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

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

Dangerous health implications:

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

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

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SECT	ION 11: TOXICOLOGICAL INFORMATION (continued)				
	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 doe this effect. For more information see section 3.G- Specific target organ toxicity (STOT)-repeated exposure:	es not contain subsi	ances classified as haz	ardous for	
	 Specific target organ toxicity (STOT)-repeated exposure: Based on it does not contain substances classified as hazardous for this effect. Skin: Based on available data, the classification criteria are not met, hazardous for this effect. For more information see section 3. H- Aspiration hazard: 	For more informati	on see section 3.		
	Based on available data, the classification criteria are not met, as it doe this effect. For more information see section 3. Other information:	es not contain subsi	ances classified as haz	ardous for	
	Non-applicable Specific toxicology information on the substances:				
				-	
	Identification	Acu LD50 oral	te toxicity	Genus	
	Imidazole CAS: 288-32-4	LD50 oral LD50 dermal	500 mg/kg (ATEi) >2000 mg/kg		
	EC: 206-019-2	LC50 inhalation	>5 mg/L		
11.2	Treformation on other basevelor				
	2 Information on other hazards:				
	Endocrine disrupting properties				
	Endocrine disrupting properties Endocrine-disrupting properties: The product does not meet the criteria.				
	Endocrine disrupting properties Endocrine-disrupting properties: The product does not meet the criteria. Other information				
	Endocrine disrupting properties Endocrine-disrupting properties: The product does not meet the criteria.				
	Endocrine disrupting properties Endocrine-disrupting properties: The product does not meet the criteria. Other information Non-applicable				
	Endocrine disrupting properties Endocrine-disrupting properties: The product does not meet the criteria. Other information				
SECT	Endocrine disrupting properties Endocrine-disrupting properties: The product does not meet the criteria. Other information Non-applicable	oduct itself is not av	railable		
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SECTI The ex Based For mo 12.1 12.2 12.3 12.4 12.5	Endocrine disrupting properties Endocrine-disrupting properties: The product does not meet the criteria. Other information Non-applicable ION 12: ECOLOGICAL INFORMATION experimental information related to the eco-toxicological properties of the pro- on available data, the classification criteria are not met, as it does not cont ore information see section 3. Toxicity: Not available Persistence and degradability: Not available Bioaccumulative potential: Not available Mobility in soil: Not available Results of PBT and vPvB assessment: Product does not meet PBT/vPvB criteria Endocrine disrupting properties:			this effect.	
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- CONTINUED ON NEXT PAGE -

Revised: 12/10/2023



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legislation

CZ0624 - Feruloyl esterase 1A, Lactobacillus kefiranofaciens

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:

14.2 14.3 14.4 14.5	Labels: Packing group: Environmental hazards: Special precautions for user Special regulations:	Non-applicable Non-applicable Non-applicable Non-applicable Non-applicable No
	Tunnel restriction code: Physico-Chemical properties:	Non-applicable 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
	Packing group:	Non-applicable
14.5	Marine pollutant:	No
14.6		
14.6	Special regulations:	Non-applicable
14.6		Non-applicable
14.6	Special regulations: EmS Codes: Physico-Chemical properties:	Non-applicable see section 9
14.6	Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities:	see section 9 Non-applicable
14.6	Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group:	see section 9
14.6 14.7	Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities:	see section 9 Non-applicable
14.7	Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group: Maritime transport in bulk according to IMO	see section 9 Non-applicable Non-applicable

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CZ0624 - Feruloyl esterase 1A, Lactobacillus kefiranofaciens

Date of compilation:	23/06/2020 Revised: 1	2/10/2023	Version: 2 (Replaced 1)
SECTION 14: T	RANSPORT INFORMATION	(continued)	
With rega	ard to IATA/ICAO 2023:		
14.2 14.3 14.4 14.5	UN number or ID number UN proper shipping name Transport hazard class(es) Labels: Packing group: Environmental hazards: Special precautions for use	Non-applicable Non-applicable Non-applicable Non-applicable No	
14.7	Physico-Chemical properties:	see section 9 Non-applicable	
SECTION 15: R	EGULATORY INFORMATIO	N	

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

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

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

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

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

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

Seveso III:

Non-applicable

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

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

Shall not be used in:

and ashtravs.

-tricks and jokes,

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

Specific provisions in terms of protecting people or the environment:

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

Other legislation:

The product could be affected by sectorial legislation

15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

SECTION 16: OTHER INFORMATION **

Legislation related to safety data sheets:

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

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

** Changes with regards to the previous version

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CZ0624 - Feruloyl esterase 1A, Lactobacillus kefiranofaciens

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 127 · Hazard statements		ON 16):
Texts of the legislative p H315: Causes skin irritation. H360D: May damage the un H319: Causes serious eye in	born child.	ction 2:
Texts of the legislative p	hrases mentioned in sec	ction 3:
The phrases indicated do no individual components whic		; they are present merely for informative purposes and refer to the
CLP Regulation (EC) No 1 Acute Tox. 4: H302 - Harmf 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		
-	order to prevent industrial	risks for staff using this product and to facilitate their comprehension and label on the product.
Principal bibliographical		
http://echa.europa.eu http://eur-lex.europa.eu		
Abbreviations and acrony	vms:	
IMDG: International maritin IATA: International Air Trar ICAO: International Civil Avi COD: Chemical Oxygen Der	ne dangerous goods code Isport Association ation Organisation nand	al carriage of dangerous goods by road
BOD5: 5day biochemical oxy BCF: Bioconcentration facto LD50: Lethal Dose 50 LC50: Lethal Concentration	r 50	
EC50: Effective concentratio LogPOW: Octanolwater part Koc: Partition coefficient of UFI: unique formula identifi	ition coefficient organic carbon er	
IARC: International Agency	or Research on Cancer	

** Changes with regards to the previous version

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.