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

**NZYtech** 

# CZ0607 - Feruloyl esterase 1A, Butyrivibrio fibrisolvens

ate of	compilation: 23/06/	2020 Revised: 12/10/2023 Version: 2 (Replaced 1)
SECT	TION 1: IDENTIF	ICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1	Product identifi	er: CZ0607 - Feruloyl esterase 1A, Butyrivibrio fibrisolvens
		Glycerol
	CAS:	56-81-5
	EC:	200-289-5
	Index:	Non-applicable
	REACH:	01-2119471987-18-XXXX
	Other means of	identification:
	Non-applicable	
1.2	Relevant identif	ied uses of the substance or mixture and uses advised against:
	Relevant uses: La	boratory. For professional users only.
	Uses advised agai	nst: All uses not specified in this section or in section 7.3
1.3	Details of the su	Ipplier of the safety data sheet:
		o Lumiar Campus do Lumiar - Edif. E, r/c - Lisboa - Portugal
1.4	Emergency tele	phone number: Contact Local Poison Information Center or Local Emergency Number
SECT	FION 2: HAZARD	S IDENTIFICATION **
2.1	<b>Classification of</b>	the substance or mixture:
	<b>CLP Regulation</b>	(EC) No 1272/2008:
	Classification of th	his product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.
	Eye Irrit. 2: Eye ir	ritation, Category 2, H319

Repr. 1B: Reproductive toxicity, Category 2, H319 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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legislation

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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 <sup>(1)</sup>		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 %

<sup>(1)</sup> 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

te of o	compilation: 23/06/2020	Revised: 12/10	)/2023 Ve	ersion: 2 (Replace	d 1)			
	TION 7: HANDLING AND	-	-		u 1)			
7.2	Product is non-flammab to avoid the generation conditions and material C Technical recommendat PREGNANT WOMEN SH necessary safety condit equipment, especially o drink during the proces D Technical recommendati It is recommended to ha <b>Conditions for safe stora</b> A Technical measures for Store in a cool, dry, well B General conditions for sa Avoid sources of heat, r	of electrostatic cl ls that should be a cions on general oc IOULD NOT BE EX cions (emergency s on the hands and fa s, washing hands ions to prevent en ave absorbent mat <b>age, including an</b> storage I-ventilated locatio storage	narges that can a avoided. cupational hygier POSED TO THIS showers and eye ace (See section & afterwards with vironmental risks cerial available at <b>y incompatibilit</b> n	iffect flammable p PRODUCT. Trans wash stations in o 3). Limit manual tr suitable cleaning close proximity to <b>ies:</b>	products. Consul fer in designated close proximity), ransfers to small products. the product (Se	It section 10 the subsection 10 the subsec	for information of comply with the nal protection y. Do not eat or 6.3)	on
7.3	Specific end use(s):							
					a ai al wa a a mama a m	dation rogard		
	Except for the instructions a product. TON 8: EXPOSURE CONT Control parameters: Substances whose occupati	rols/person/	AL PROTECTIO	N				nis
	Product. TION 8: EXPOSURE CONT	TROLS/PERSONA	AL PROTECTIO	N nitored in the wor	kplace (Europea	n OEL, not cc		:his
	product. ION 8: EXPOSURE CONT <b>Control parameters:</b> Substances whose occupatilegislation):	TROLS/PERSONA	AL PROTECTIO	N nitored in the wor	kplace (Europea	n OEL, not cc		nis
	product. TON 8: EXPOSURE CONT Control parameters: Substances whose occupati legislation): There are no applicable occ	TROLS/PERSONA	AL PROTECTIO	N nitored in the wor bstances containe	kplace (Europea	n OEL, not cc		:his
	product. TION 8: EXPOSURE CONT Control parameters: Substances whose occupati legislation): There are no applicable occ DNEL (Workers): Identifica	TROLS/PERSON/	AL PROTECTIO	N nitored in the wor bstances containe Short Systemic	kplace (Europea ed in the product exposure Local	n OEL, not cc	ountry-specific	
	product. TON 8: EXPOSURE CONT Control parameters: Substances whose occupati legislation): There are no applicable occ DNEL (Workers): Identifica Imidazole	TROLS/PERSON/	AL PROTECTIO	N nitored in the wor bstances containe Short Systemic Non-applicable	kplace (Europea ed in the product exposure Local Non-applicable	n OEL, not cc	ountry-specific	le
	product. TON 8: EXPOSURE CONT Control parameters: Substances whose occupatilegislation): There are no applicable occ DNEL (Workers): Identifica Imidazole CAS: 288-32-4	TROLS/PERSON/	AL PROTECTIO	N nitored in the wor bstances containe Short Systemic Non-applicable Non-applicable	kplace (Europea ed in the product exposure Local Non-applicable Non-applicable	n OEL, not co	ountry-specific	le
	product. TION 8: EXPOSURE CONT Control parameters: Substances whose occupatilegislation): There are no applicable occ DNEL (Workers): Identifica Imidazole CAS: 288-32-4 EC: 206-019-2	TROLS/PERSON/ ional exposure limi	AL PROTECTIO	N nitored in the wor bstances containe Short Systemic Non-applicable	kplace (Europea ed in the product exposure Local Non-applicable	n OEL, not cc	ountry-specific	le
	product. TION 8: EXPOSURE CONT Control parameters: Substances whose occupati legislation): There are no applicable occ DNEL (Workers): Identifica Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population)	TROLS/PERSON/ ional exposure limi	AL PROTECTIO	N nitored in the wor bstances containe Short Systemic Non-applicable Non-applicable	kplace (Europea ed in the product exposure Local Non-applicable Non-applicable	n OEL, not co	ountry-specific	le
	product. TON 8: EXPOSURE CONT Control parameters: Substances whose occupatilegislation): There are no applicable occupatilegislation): There are no applicable occupation DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population Non-applicable	TROLS/PERSON/ ional exposure limi	AL PROTECTIO	N nitored in the wor bstances containe Short Systemic Non-applicable Non-applicable	kplace (Europea ed in the product exposure Local Non-applicable Non-applicable	n OEL, not co	ountry-specific	le
	product. TION 8: EXPOSURE CONT Control parameters: Substances whose occupatilegislation): There are no applicable occe DNEL (Workers): Identifica Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population Non-applicable PNEC:	TROLS/PERSON/ ional exposure limi supational exposur tion	AL PROTECTIO	N nitored in the wor bstances containe Short Systemic Non-applicable Non-applicable	kplace (Europea ed in the product exposure Local Non-applicable Non-applicable	n OEL, not co	ountry-specific	le
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		CONTROLS/PERSON				
	Pictogram	PPE	Labelling	CEN Standard		Remarks
	Mandatory respiratory tract protection	Filter mask for gases and vapours	CAT III	EN 405:2002+A1:2010	c	place when there is a taste or smell of the ontaminant inside the face mask. If the contaminant comes with warnings it is commended to use isolation equipment.
C	Specific protection	n for the hands				
	Pictogram	PPE	Labelling	CEN Standard		Remarks
	Mandatory hand protection	Chemical protective gloves (Material: PVC, Breakthrough time: > 480 min, Thickness: 0.7 mm)		EN ISO 21420:2020	Rep	lace the gloves at any sign of deterioration
D	Eye and face prot	ection				
	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 according nanufacturer 's instructions. Use if there is 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		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	itandards	Emergency mea	asure	Standards
	Emergency sho	ISO 3864-1:20	ISI Z358-1 011, ISO 3864-4:20	011 Eyewash stati	ons	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
In a spil	vironmental exp accordance with th lage of both the p	osure controls: ne community legislation roduct and its container		on of the environment it	: is recon	nmended to avoid environmental .D
	atile organic co	-				
	-	ive 2010/75/EU, this pro		lowing characteristics:		
	V.O.C. (Supply):		weight			
	V.O.C. density at	-	/m³ (0 g/L)			
	Average carbon r	number: Non-	applicable			

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

# 9.1 Information on basic physical and chemical properties:

\*Not relevant due to the nature of the product, not providing information property of its hazards.



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SECT	TON 9: PHYSICAL AND CHEMICAL PROPERTIES	(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 <sup>3</sup>
	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 amlicable
0.7	Median equivalent diameter:	Non-applicable
9.2	Other information: Information with regard to physical hazard clas	5051
	Explosive properties: Oxidising properties:	Non-applicable * 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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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)					
	Refraction index: Non-applicable *				
	*Not relevant due to the nature of the product, not providing information property of its hazards.				
SECT	SECTION 10: STABILITY AND REACTIVITY				
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.				
	Chemically stable under the	e indicated conditions of st	torage, 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	l 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:					
10.5		Water	Oxidising materials	Combustible materials	Others
10.5	Acids				

complex mixtures of chemical substances can be released: carbon dioxide (CO<sub>2</sub>), 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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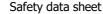
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SECT	ION 11: TOXICOLOGICAL	INFORMATION (continue	d)			
	E- Sensitizing effects:					
	<ul> <li>Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.</li> <li>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.</li> <li>F- Specific target organ toxicity (STOT) - single exposure:</li> <li>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.</li> </ul>					
	<ul> <li>G- Specific target organ toxicity (STOT)-repeated exposure:</li> <li>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.</li> <li>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 substances classified as hazardous for this effect. For more information substances classified as hazardous for this effect. For more information see section 3.</li> <li>H- Aspiration hazard:</li> <li>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.</li> </ul>					ed as
	Other information:					
	Non-applicable	ation on the substances				
	Specific toxicology inform	ation on the substances:				
		Identification		4	ite 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 has Endocrine disrupting prop			LC50 inhalation	>5 mg/L	
11.2	Endocrine disrupting prop		t the criteria.			
11.2	Endocrine disrupting prop Endocrine-disrupting propert Other information	perties	t the criteria.			
	Endocrine disrupting prop Endocrine-disrupting propert Other information	perties ies: The product does not meet	t the criteria.			
SECT. The ex Based For mo	Endocrine disrupting prop Endocrine-disrupting propert Other information Non-applicable ION 12: ECOLOGICAL IN operimental information relate on available data, the classifi ore information see section 3 Toxicity:	perties ies: The product does not meet FORMATION ed to the eco-toxicological prope cation criteria are not met, as it	erties of the pro	LC50 inhalation	>5 mg/L	this effect.
SECT. The ex Based For me <b>12.1</b>	Endocrine disrupting propert Endocrine-disrupting propert Other information Non-applicable ION 12: ECOLOGICAL IN Operimental information related on available data, the classifi ore information see section 3 Toxicity: Not available	FORMATION ad to the eco-toxicological proper cation criteria are not met, as it	erties of the pro	LC50 inhalation	>5 mg/L	• this effect.
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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

# CZ0607 - Feruloyl esterase 1A, Butyrivibrio fibrisolvens

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	UN number or ID number: UN proper shipping name: Transport hazard class(es): Labels: Packing group: Environmental hazards:	Non-applicable Non-applicable Non-applicable Non-applicable Non-applicable No
14.0	Special precautions for user Special regulations: Tunnel restriction code: Physico-Chemical properties: Limited quantities:	Non-applicable Non-applicable see section 9 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:	
	UN number or ID number: UN proper shipping name:	Non-applicable Non-applicable
	Transport hazard class(es): Labels:	Non-applicable Non-applicable
14.4	Packing group:	Non-applicable
	Marine pollutant:	No
14.6	Special precautions for user	
	Special regulations: EmS Codes:	Non-applicable
	Physico-Chemical properties:	see section 9
	Limited quantities:	Non-applicable
	Segregation group:	Non-applicable
14.7	Maritime transport in bulk according to IMO instruments:	Non-applicable
Transpo	rt of dangerous goods by air:	

Revised: 12/10/2023

Safety data sheet legislation

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

## SECTION 15: REGULATORY INFORMATION

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

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

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

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

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

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

## Seveso III:

Non-applicable

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

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

Shall not be used in:

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

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

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# CZ0607 - Feruloyl esterase 1A, Butyrivibrio fibrisolvens

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.	ction 2:
Texts of the legislative ph	rases mentioned in sec	ction 3:
The phrases indicated do not individual components which		; they are present merely for informative purposes and refer to the
CLP Regulation (EC) No 12 Acute Tox. 4: H302 - Harmful Eye Dam. 1: H318 - Causes s Repr. 1B: H360D - May dama Skin Corr. 1C: H314 - Causes	if swallowed. erious eye damage. ge the unborn child.	e damage.
Advice related to training:		
_	rder to prevent industrial	risks for staff using this product and to facilitate their comprehension and label on the product.
Principal bibliographical s		·
http://echa.europa.eu http://eur-lex.europa.eu		
Abbreviations and acronyn	ns:	
IMDG: International maritime IATA: International Air Trans ICAO: International Civil Aviat	e dangerous goods code port Association ion Organisation	al carriage of dangerous goods by road
COD: Chemical Oxygen Dema BOD5: 5day biochemical oxyg BCF: Bioconcentration factor LD50: Lethal Dose 50	en demand	
LC50: Lethal Concentration 5 EC50: Effective concentration LogPOW: Octanolwater partit Koc: Partition coefficient of o	50 ion coefficient	
UFI: unique formula identifie IARC: International Agency for	r	

\*\* 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.