

# legislation CZ0602 - Feruloyl esterase 1A, Mycobacterium mageritense

ate of	compilation: 23/06/20	20 Revised: 12/10/2023 Version: 2 (Replaced 1)
SECT	FION 1: IDENTIFIC	ATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1	<b>Product identifier</b>	: CZ0602 - Feruloyl esterase 1A, Mycobacterium mageritense
		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:
1.4	1649-038 Lisboa - L info@nzytech.com www.nzytech.com	Lumiar Campus do Lumiar - Edif. E, r/c .isboa - Portugal <b>10ne number:</b> Contact Local Poison Information Center or Local Emergency Number
SECT	FION 2: HAZARDS	IDENTIFICATION **
2.1	Classification of t	he substance or mixture:
	CLP Regulation (I	EC) No 1272/2008:
		a meduation (FC) No. 1272/2000

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 <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	Acute 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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SECT	TION 7: HANDLING AND STORA	GE (continued)				
	Product is non-flammable under to avoid the generation of elect conditions and materials that sh	rostatic charges that can a				
	C Technical recommendations on		ne			
	PREGNANT WOMEN SHOULD N necessary safety conditions (en equipment, especially on the ha drink during the process, washi D Technical recommendations to p	nergency showers and eye nds and face (See section and face (See section and face (See section)	wash stations in o 3). Limit manual tr suitable cleaning	close proximity), ransfers to small	using persona	l protection
	It is recommended to have abso			the product (Se	e subsection 6.	3)
7.2	Conditions for safe storage, incl					- /
	A Technical measures for storage	aung uny meenpacion				
	Store in a cool, dry, well-ventilat	ed location				
	B General conditions for storage	static clastricity and contr	at with food For	additional inform	ation can auba	ortion 10 F
	Avoid sources of heat, radiation,	static electricity and conta	ict with food. For a	additional inform	ation see subse	ection 10.5
7.3	Specific end use(s):					
	Except for the instructions already s product.	pecified it is not necessary	to provide any sp	ecial recomment	dation regardin	g the uses of this
	TION 8: EXPOSURE CONTROLS/I Control parameters: Substances whose occupational exp legislation): There are no applicable occupations	osure limits have to be mo	nitored in the wor			ntry-specific
SECT 8.1	Control parameters: Substances whose occupational exp	osure limits have to be mo	nitored in the wor	ed in the product		
	Control parameters: Substances whose occupational explegislation): There are no applicable occupationa DNEL (Workers):	osure limits have to be mo	nitored in the wor Ibstances containe Short	ed in the product	Lon	ig exposure
	Control parameters: Substances whose occupational explegislation): There are no applicable occupationa DNEL (Workers):	osure limits have to be mo	nitored in the wor Ibstances containe Short	ed in the product exposure Local	Lon	ig exposure
	Control parameters: Substances whose occupational explegislation): There are no applicable occupationa DNEL (Workers):	osure limits have to be mo al exposure limits for the su	nitored in the wor Ibstances containe Short	ed in the product	Lon	ig exposure
	Control parameters: Substances whose occupational explegislation): There are no applicable occupational DNEL (Workers): Identification Imidazole	osure limits have to be mo al exposure limits for the su Oral	nitored in the wor Ibstances containe Short Systemic Non-applicable	ed in the product exposure Local Non-applicable	Lon Systemic Non-applicable	g exposure Local Non-applicable
	Control parameters: Substances whose occupational explegislation): There are no applicable occupational DNEL (Workers): Identification Imidazole CAS: 288-32-4	osure limits have to be mo al exposure limits for the su Oral Dermal	nitored in the wor Ibstances containe Short Systemic Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	Lon Systemic Non-applicable 1,5 mg/kg	lg exposure Local Non-applicable Non-applicable
	Control parameters: Substances whose occupational explegislation): There are no applicable occupational DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2	osure limits have to be mo al exposure limits for the su Oral Dermal	nitored in the wor Ibstances containe Short Systemic Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	Lon Systemic Non-applicable 1,5 mg/kg	lg exposure Local Non-applicable Non-applicable
	Control parameters: Substances whose occupational explegislation): There are no applicable occupational DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population):	osure limits have to be mo al exposure limits for the su Oral Dermal	nitored in the wor Ibstances containe Short Systemic Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	Lon Systemic Non-applicable 1,5 mg/kg	lg exposure Local Non-applicable Non-applicable
	Control parameters: Substances whose occupational explegislation): There are no applicable occupational DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population): Non-applicable	osure limits have to be mo al exposure limits for the su Oral Dermal	nitored in the wor Ibstances containe Short Systemic Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	Lon Systemic Non-applicable 1,5 mg/kg	lg exposure Local Non-applicable Non-applicable
	Control parameters: Substances whose occupational explegislation): There are no applicable occupational DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population): Non-applicable PNEC:	osure limits have to be mo al exposure limits for the su Oral Dermal	nitored in the wor Ibstances containe Short Systemic Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	Lon Systemic Non-applicable 1,5 mg/kg 10,6 mg/m <sup>3</sup>	lg exposure Local Non-applicable Non-applicable
	Control parameters: Substances whose occupational explegislation): There are no applicable occupational DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population): Non-applicable PNEC: Identification	Oral Oral Inhalation	nitored in the wor Ibstances containe Short Non-applicable Non-applicable Non-applicable	ed in the product	Lon Systemic Non-applicable 1,5 mg/kg 10,6 mg/m <sup>3</sup>	g exposure Local Non-applicable Non-applicable Non-applicable
	Control parameters: Substances whose occupational explegislation): There are no applicable occupational DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population): Non-applicable PNEC: Identification Imidazole	Oral Oral Oral Dermal Inhalation STP Soil Intermittent	nitored in the wor ibstances containe Short Non-applicable Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable Non-applicable Fresh water Marine water Sediment (Fresh	Lon       Systemic       Non-applicable       1,5 mg/kg       10,6 mg/m³	Ing exposure Local Non-applicable Non-applicable Non-applicable 0,13 mg/L 0,013 mg/L 0,336 mg/kg
8.1	Control parameters: Substances whose occupational explegislation): There are no applicable occupational DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population): Non-applicable PNEC: Identification Imidazole CAS: 288-32-4 EC: 206-019-2	Oral Oral Oral Inhalation STP Soil	nitored in the wor Ibstances containe Short Non-applicable Non-applicable Non-applicable	ed in the product	Lon       Systemic       Non-applicable       1,5 mg/kg       10,6 mg/m³	Ing exposure Local Non-applicable Non-applicable Non-applicable 0,13 mg/L 0,013 mg/L
	Control parameters: Substances whose occupational explegislation): There are no applicable occupational DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population): Non-applicable PNEC: Identification Imidazole CAS: 288-32-4	Oral Oral Dermal Inhalation STP Soil Intermittent Oral	nitored in the wor ibstances containe Short Non-applicable Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable Non-applicable Fresh water Marine water Sediment (Fresh	Lon       Systemic       Non-applicable       1,5 mg/kg       10,6 mg/m³	Ing exposure Local Non-applicable Non-applicable Non-applicable 0,13 mg/L 0,013 mg/L 0,336 mg/kg

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TION	8: EXPOSURE	CONTROLS/PERSON	AL PROTECTI	ON (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)		EN ISO 21420:2020	Rep	lace the gloves at any sign of deterioratic
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 risk of splashing.
E	Body protection				•	
	Pictogram	PPE	Labelling	CEN Standard		Remarks
	Mandatory complete body protection	Disposable clothing for protection against chemical risks		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 periodicall 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	Standards	Emergency meas	ure	Standards
	Emergency sho	ISO 3864-1:2	NSI Z358-1 011, ISO 3864-4:20	111 Eyewash station	าร	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
En	vironmental exp	osure controls:		·		
In a spi	accordance with th	ne community legislation product and its contained		on of the environment it i information see subsect		nmended to avoid environmental .D
	-	ive 2010/75/EU, this pro	duct has the foll	lowing characteristics		
vvil	V.O.C. (Supply):	· · · ·	weight	וטייווין נוומומנופווצוונצ:		
	V.O.C. (Supply).		$/m^3$ (0 g/L)			
	Average carbon r	-	-applicable			
	Average molecula		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	TION 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 <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:	
	Median equivalent diameter:	Non-applicable
9.2	Other information:	
	Information with regard to physical hazard class	ses:
	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: <b>Other safety characteristics:</b>	Non-applicable *
	Surface tension at 20 °C:	Non-applicable *
	*Not relevant due to the nature of the product, not providing infor	

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SECT	TON 9: PHYSICAL AND (	CHEMICAL PROPERTIE	ES (continued)		
	Refraction index:		Non-applicable *		
	*Not relevant due to the nature of	of the product, not providing info	ormation property of its hazards.		
CECT	ION 10: STABILITY AND				
		REACTIVITY			
10.1	Reactivity:				
10.2	No hazardous reactions are Safety Data Sheet. <b>Chemical stability:</b>	expected because the pr	oduct is stable under recor	nmended storage condit	ions. See section 7 from
	Chemically stable under the	e indicated conditions of s	torage, handling and use.		
10.3	Possibility of hazardous	reactions:			
	Under the specified condition	ons, hazardous reactions t	that lead to excessive temp	peratures or pressure are	not expected.
10.4	Conditions to avoid:				
	Applicable for handling and	l 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	Incompatible materials:	l			
-0.5		Water	Oxidising materials	Combustible materials	Others
-0.5	Acids				

# 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 (continue	ed)				
	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>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>						
	G- Specific target organ toxi	city (STOT)-repeated exposure	e:				
	it does not contain subsi - Skin: Based on availal hazardous for this effect H- Aspiration hazard: Based on available data, this effect. For more info	toxicity (STOT)-repeated expo tances classified as hazardous ble data, the classification crite c. For more information see se the classification criteria are n ormation see section 3.	for this effect. Feria are not met, ction 3.	For more informati as it does not cont	on see section 3. ain substances classifie	ed as	
	Other information:						
	Non-applicable						
	Specific toxicology inform	nation on the substances:					
		Identification		Acut	te toxicity	Genus	
	Imidazole			LD50 oral	, 500 mg/kg (ATEi)		
	CAS: 288-32-4			LD50 dermal	>2000 mg/kg		
	EC: 206-019-2						
11.2 Information on other hazards:							
11.2	Information on other ha	zards:		LC50 inhalation	>5 mg/L		
11.2	Information on other has Endocrine disrupting prop			LC50 inhalation	>5 mg/L		
11.2	Endocrine disrupting pro		t the criteria.	LC50 inhalation	>5 mg/L		
11.2	Endocrine disrupting pro	perties	t the criteria.	LC50 inhalation	>5 mg/L		
11.2	Endocrine disrupting prop Endocrine-disrupting propert	perties	et the criteria.	LC50 inhalation	>5 mg/L		
11.2	Endocrine disrupting prop Endocrine-disrupting propert Other information	perties	t the criteria.	LC50 inhalation	>5 mg/L		
	Endocrine disrupting prop Endocrine-disrupting propert Other information	perties ies: The product does not mee	et the criteria.	LC50 inhalation	>5 mg/L		
SECT	Endocrine disrupting prop Endocrine-disrupting propert Other information Non-applicable	perties ties: The product does not mee FORMATION					
SECT The ex Based For m	Endocrine disrupting prop Endocrine-disrupting propert Other information Non-applicable ION 12: ECOLOGICAL IN experimental information relate on available data, the classifi ore information see section 3 Toxicity:	perties ties: The product does not mee FORMATION ed to the eco-toxicological prop cation criteria are not met, as i	erties of the pro	duct itself is not av	railable	this effect.	
SECT The ex Based For m	Endocrine disrupting prop Endocrine-disrupting propert Other information Non-applicable ION 12: ECOLOGICAL IN xperimental information relate on available data, the classifi ore information see section 3	perties ties: The product does not mee FORMATION ed to the eco-toxicological prop cation criteria are not met, as i	erties of the pro	duct itself is not av	railable	this effect.	
SECT The ex Based For m <b>12.1</b>	Endocrine disrupting prop Endocrine-disrupting propert Other information Non-applicable ION 12: ECOLOGICAL IN experimental information relate on available data, the classifi ore information see section 3 Toxicity:	perties ies: The product does not mee FORMATION ed to the eco-toxicological prop cation criteria are not met, as i 3.	erties of the pro	duct itself is not av	railable	this effect.	
SECT The ex Based For m <b>12.1</b>	Endocrine disrupting prop Endocrine-disrupting propert Other information Non-applicable ION 12: ECOLOGICAL IN experimental information relate on available data, the classifi ore information see section 3 Toxicity: Not available	perties ies: The product does not mee FORMATION ed to the eco-toxicological prop cation criteria are not met, as i 3.	erties of the pro	duct itself is not av	railable	this effect.	
SECT The ex Based For m 12.1 12.2	Endocrine disrupting prop Endocrine-disrupting propert Other information Non-applicable ION 12: ECOLOGICAL IN experimental information relate on available data, the classifi ore information see section 3 Toxicity: Not available Persistence and degradat	perties ties: The product does not mee FORMATION ad to the eco-toxicological prop toation criteria are not met, as i a.	erties of the pro	duct itself is not av	railable	this effect.	
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Revised: 12/10/2023



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

legislation

# CZ0602 - Feruloyl esterase 1A, Mycobacterium mageritense

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

Revised: 12/10/2023

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# CZ0602 - Feruloyl esterase 1A, Mycobacterium mageritense

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

### SECTION 15: REGULATORY INFORMATION

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

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

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

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

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

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

### Seveso III:

Non-applicable

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

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

Shall not be used in:

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

—tricks and jokes,

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

### Specific provisions in terms of protecting people or the environment:

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

### Other legislation:

The product could be affected by sectorial legislation

### 15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

### SECTION 16: OTHER INFORMATION \*\*

### Legislation related to safety data sheets:

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

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

\*\* Changes with regards to the previous version

This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation **8** NZYtech

# CZ0602 - Feruloyl esterase 1A, Mycobacterium mageritense

Date of compilation: 23/06/2020 Revised: 12/10/2023 Version: 2 (Replaced 1)	
SECTION 16: OTHER INFORMATION ** (continued)	
COMMISSION REGULATION (EU) 2020/878 CLP Regulation (EC) No 1272/2008 (SECTION 2, SECTION 16): · Hazard statements	
<b>Texts of the legislative phrases mentioned in section 2:</b> H315: Causes skin irritation. H360D: May damage the unborn child. H319: Causes serious eye irritation.	
Texts of the legislative phrases mentioned in section 3:	
The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3	
CLP Regulation (EC) No 1272/2008:	
Acute Tox. 4: H302 - Harmful if swallowed. Eye Dam. 1: H318 - Causes serious eye damage. Repr. 1B: H360D - May damage the unborn child. Skin Corr. 1C: H314 - Causes severe skin burns and eye damage.	
Advice related to training:	
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	
Abbreviations and acronyms:	
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 Demand	
BOD5: 5day biochemical oxygen demand BCF: Bioconcentration factor LD50: Lethal Dose 50	
LC50: Lethal Concentration 50	
EC50: Effective concentration 50	
LogPOW: Octanolwater partition coefficient	
Koc: Partition coefficient of organic carbon	
UFI: unique formula identifier IARC: International Agency for 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.