Safety data sheet legislation

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

CZ0600 - Feruloyl esterase 1B, Clostridium saccharoperbutylacetonicum

Date of o	compilation: 23/06/202	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	Product identifier:	CZ0600 - Feruloyl esterase 1B, Clostridium saccharoperbutylacetonicum
		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	l uses of the substance or mixture and uses advised against:
	Relevant uses: Labor	atory. For professional users only.
	Uses advised against	: All uses not specified in this section or in section 7.3
1.3	Details of the supp	lier of the safety data sheet:
	NZYTech Estrada do Paco do L 1649-038 Lisboa - Li info@nzytech.com www.nzytech.com	umiar Campus do Lumiar - Edif. E, r/c sboa - Portugal
1.4	Emergency telepho	one number: Contact Local Poison Information Center or Local Emergency Number

2.1 Classification of the substance or mixture:

CLP Regulation (EC) No 1272/2008:

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

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

2.2 Label elements:

CLP Regulation (EC) No 1272/2008:

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

Danger



Hazard statements:

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

Precautionary statements:

P201: Obtain special instructions before use.

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

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

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

Substances that contribute to the classification

Imidazole (CAS: 288-32-4)

Additional Labelling:

Restricted to professional users

2.3 **Other hazards:**

** Changes with regards to the previous version

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SECTION 2: HAZARDS IDENTIFICATION ** (continued)

Product does not meet PBT/vPvB criteria

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

Revised: 12/10/2023

** Changes with regards to the previous version

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Chemical description: Mixture of substances

Components:

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

	Identification	Chemical name/Classification			
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) (3)	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	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 eye 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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SECTION 7: HANDLING AND STORAGE (continued)

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

C.- Technical recommendations on general occupational hygiene

PREGNANT WOMEN SHOULD NOT BE EXPOSED TO THIS PRODUCT. Transfer in designated areas that comply with the necessary safety conditions (emergency showers and eyewash stations in close proximity), using personal protection equipment, especially on the hands and face (See section 8). Limit manual transfers to small amounts only. Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

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

Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Store in a cool, dry, well-ventilated location

B.- General conditions for storage

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

7.3 Specific end use(s):

7.2

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

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 **Control parameters:**

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

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

DNEL (Workers):

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

DNEL (General population):

Non-applicable

PNEC:

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

8.2 **Exposure controls:**

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

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

B.- Respiratory protection

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TION	8: EXPOSURE	CONTROLS	S/PER <u>SONA</u>	L PRO <u>TECTIO</u>	ON (<u>conti</u>	nued)		
	Pictogram		PE	Labelling		I Standard		Remarks
	Mandatory respiratory tract protection	Filter mask t	for gases and pours			2002+A1:2010	cc	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 5	Specific protection	n for the har	nds		1		_1	
	Pictogram	F	PE	Labelling	CEN	l Standard		Remarks
	Mandatory hand protection	(Material: PVC time: > 480 n	otective gloves , Breakthrough nin, Thickness: mm)		EN ISO) 21420:2020	Repl	ace the gloves at any sign of deterioration
D	Eye and face prot	ection						
	Pictogram	F	PPE	Labelling	CEN	l Standard		Remarks
	Mandatory face protection	Face	shield		EN EN	166:2002 167:2002 168:2002 0 4007:2018		daily and disinfect periodically accordin nanufacturer 's instructions. Use if there risk of splashing.
E	Body protection						-	
	Pictogram	P	PPE	Labelling	CEN	l Standard		Remarks
	Mandatory complete body protection	protection ag	e clothing for jainst chemical sks		EN EN I: 1:200 EN ISO EN ISO	:2005+A1:2009 168:2002 SO 13982- 04/A1:2010 D 6529:2013 D 6530:2005 464:1994		r professional use only. Clean periodicall ording to the manufacturer's instructions
	Mandatory foot protection	protection ag	otwear for jainst chemical isk			20345:2011 832-1:2019	Re	eplace boots at any sign of deterioration.
F /	Additional emerge	ency measur	es					
	Emergency mea	asure	St	andards		Emergency measu	ure	Standards
	Emergency sho	ower		SI Z358-1 11, ISO 3864-4:20	11	Eyewash station	าร	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
In a spill Vola With	vironmental exp ccordance with th age of both the p atile organic con h regard to Directi V.O.C. (Supply): V.O.C. density at	ne communit product and mpounds: ive 2010/75,	y legislation f its container. /EU, this prod 0 % v	For additional	informatio	on see subsecti		nmended to avoid environmental D
	Average carbon n	umber:	-	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	S (continued)
	For complete information see the product datasheet.	
	Appearance:	
	Physical state at 20 °C:	Liquid
	Appearance:	Not available
	Colour:	Colourless
	Odour:	Odourless
	Odour threshold:	Non-applicable *
	Volatility:	
	Boiling point at atmospheric pressure:	Non-applicable *
	Vapour pressure at 20 °C:	Non-applicable *
	Vapour pressure at 50 °C:	Non-applicable *
	Evaporation rate at 20 °C:	Non-applicable *
	Product description:	1110.0 1 /2
	Density at 20 °C:	1110,8 kg/m ³
	Relative density at 20 °C:	1,111 Nac applicable *
	Dynamic viscosity at 20 °C: Kinematic viscosity at 20 °C:	Non-applicable * Non-applicable *
	Kinematic viscosity at 40 °C:	Non-applicable *
	Concentration:	Non-applicable *
	pH:	7,2
	Vapour density at 20 °C:	Non-applicable *
	Partition coefficient n-octanol/water 20 °C:	Non-applicable *
	Solubility in water at 20 °C:	Non-applicable *
	Solubility properties:	Non-applicable *
	Decomposition temperature:	Non-applicable *
	Melting point/freezing point:	Non-applicable *
	Flammability:	
	Flash Point:	Non Flammable (>60 °C)
	Flammability (solid, gas):	Non-applicable *
	Autoignition temperature:	480 °C
	Lower flammability limit:	Non-applicable *
	Upper flammability limit:	Non-applicable *
	Particle characteristics:	
	Median equivalent diameter:	Non-applicable
9.2	Other information:	
	Information with regard to physical hazard clas	
	Explosive properties:	Non-applicable *
	Oxidising properties:	Non-applicable *
	Corrosive to metals:	Non-applicable *
	Heat of combustion:	Non-applicable *
	Aerosols-total percentage (by mass) of flammable components: Other safety characteristics:	Non-applicable *
	Surface tension at 20 °C:	Non-applicable *
	*Not relevant due to the nature of the product, not providing infor	

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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.

Revised: 12/10/2023

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Precaution	Not applicable	Avoid alkalis or strong bases

10.6 Hazardous decomposition products:

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

SECTION 11: TOXICOLOGICAL INFORMATION

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

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

Dangerous health implications:

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

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

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SECT	ION 11: TOXICOLOGICAL	INFORMATION (continue	ed)			
	E- Sensitizing effects:					
	hazardous with sensitisin - Skin: Based on availab	available data, the classificat g effects. For more informati le data, the classification crite For more information see se ity (STOT) - single exposure:	ion see section 3. eria are not met, a ection 3.			
	Based on available data, t this effect. For more info G- Specific target organ toxic			s not contain subst	ances classified as haz	ardous for
	it does not contain substa - Skin: Based on availab	oxicity (STOT)-repeated expo ances classified as hazardous le data, the classification crite For more information see se	s for this effect. F eria are not met, a	or more informati	on see section 3.	
	this effect. For more infor Other information:	he classification criteria are r rmation see section 3.	not met, as it does	s not contain subst	ances classified as haz	ardous for
	Non-applicable					
	Specific toxicology inform					
	* • • • •	Identification			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	Information on other haz	ards:				
	Endocrine disrupting prop	erties				
	Endocrine-disrupting propertie	es: The product does not me	et the criteria.			
	Other information	·				
	Non-applicable					
SECT	ION 12: ECOLOGICAL INF	ORMATION				
The e	xperimental information related	to the eco-toxicological pror	perties of the prov	duct itself is not av	ailable	
Basec For m	on available data, the classific ore information see section 3.	ation criteria are not met, as	•			this effect.
	Toxicity:			in substances clas.		
	Toxicity: Not available			in substances clas.		
12.2	Toxicity:			in substances clas.		
12.2	Toxicity: Not available			in substances clas.		
	Toxicity: Not available Persistence and degradabi	ility:		in substances clas.		
	Toxicity: Not available Persistence and degradabi Not available	ility:		in substances clas.		
	Toxicity: Not available Persistence and degradabi Not available Bioaccumulative potential Not available	ility:		in substances clas.		
12.3	Toxicity: Not available Persistence and degradabi Not available Bioaccumulative potential Not available	ility:		in substances clas.		
12.3 12.4	Toxicity: Not available Persistence and degradabi Not available Bioaccumulative potential Not available Mobility in soil:	ility: :		in substances clas.		
12.3 12.4	Toxicity: Not available Persistence and degradabi Not available Bioaccumulative potential Not available Mobility in soil: Not available	ility: : :ssessment:		in substances clas.		
12.3 12.4 12.5	Toxicity: Not available Persistence and degradabi Not available Bioaccumulative potential Not available Mobility in soil: Not available Results of PBT and vPvB a	ility: : ssessment: PvB criteria		in substances clas.		
12.3 12.4 12.5	Toxicity: Not available Persistence and degradabit Not available Bioaccumulative potential Not available Mobility in soil: Not available Results of PBT and vPvB at Product does not meet PBT/v Endocrine disrupting properties	ility: : ssessment: PvB criteria erties:		in substances clas.		
12.3 12.4 12.5	Toxicity: Not available Persistence and degradabi Not available Bioaccumulative potential Not available Mobility in soil: Not available Results of PBT and vPvB a Product does not meet PBT/v Endocrine disrupting prop	ility: : ssessment: PvB criteria erties:		in substances clas.		

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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:

14.3Transport hazard class(es): Labels:Non-applicable14.4Packing group:Non-applicable14.5Environmental hazards: Special regulations:No14.6Special precautions for user Tunnel restriction code: Physico-Chemical properties:Non-applicable See section 9	
Limited quantities: Non-applicable 14.7 Maritime transport in bulk Non-applicable according to IMO instruments:	
Transport of dangerous goods by sea:	
With regard to IMDG 40-20:	
14.1 UN number or ID number:Non-applicable14.2 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 Non-applicable according to IMO instruments:	
Transport of dangerous goods by air:	

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

SECTION 15: REGULATORY INFORMATION

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

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

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

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

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

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

Seveso III:

Non-applicable

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

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

Shall not be used in:

--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

NZYtech

CZ0600 - Feruloyl esterase 1B, *Clostridium* saccharoperbutylacetonicum

Saccharoperbutyracetonicum						
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	(EU) 2020/878 2/2008 (SECTION 2, SECTION	16):				
Texts of the legislative p	hrases mentioned in sectio	n 2:				
	H315: Causes skin irritation.					
H360D: May damage the un	H360D: May damage the unborn child.					
H319: Causes serious eye i	H319: Causes serious eye irritation.					
Texts of the legislative p	hrases mentioned in sectio	n 3:				
The phrases indicated do no individual components whic		ey are present merely for informative purposes and refer to the				
CLP Regulation (EC) No	1272/2008:					
Acute Tox. 4: H302 - Harmf	ful if swallowed.					
Eye Dam. 1: H318 - Causes	s serious eye damage.					
Repr. 1B: H360D - May dam	hage the unborn child.					
Skin Corr. 1C: H314 - Cause	es severe skin burns and eye d	amage.				
Advice related to training	g:					
	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 acrony	yms:					
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 identif	5					
IARC: International Agency						

** 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.