Safety data sheet legislation

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

CZ0120 - Laccase A, Bacillus subtilis

Date of	compilation: 23/06/20	020 Revised: 12/10/2023 Version: 2 (Replaced 1)		
SECT	FION 1: IDENTIFIC	CATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING		
1.1	Product identifier	r: CZ0120 - Laccase A, <i>Bacillus subtilis</i>		
		Glycerol		
	CAS:	56-81-5		
	EC:	200-289-5		
	Index:	Non-applicable		
	REACH:	01-2119471987-18-XXXX		
	Other means of id	lentification:		
	Non-applicable			
1.2	Relevant identifie	d uses of the substance or mixture and uses advised against:		
	Relevant uses: Labo	pratory. For professional users only.		
	Uses advised agains	st: All uses not specified in this section or in section 7.3		
1.3	Details of the sup	plier of the safety data sheet:		
	 3 Details of the supplier of the safety data sheet: NZYTech Estrada do Paco do Lumiar Campus do Lumiar - Edif. E, r/c 1649-038 Lisboa - Lisboa - Portugal info@nzytech.com www.nzytech.com 			
1.4	•	hone number: Contact Local Poison Information Center or Local Emergency Number		
SECT	TION 2: HAZARDS	IDENTIFICATION **		
2.1	Classification of t	he 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

Label elements: 2.2

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 CZ0120 - Laccase A, *Bacillus subtilis*

NZYtech genes & enzymes

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SECTION 2: HAZARDS IDENTIFICATION ** (continued)

Product does not meet PBT/vPvB criteria

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

** Changes with regards to the previous version

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Chemical description: Mixture of substances

Components:

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

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

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

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

3.2 Mixture:

Non-applicable

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

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

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

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

By inhalation:

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

By skin contact:

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

By 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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SECT	TION 7: HANDLING AND STOP	RAGE (continue	ed)				
	Product is non-flammable un to avoid the generation of el conditions and materials that C Technical recommendations of	ectrostatic charge t should be avoid	es that can a led.	ffect flammable p			
	PREGNANT WOMEN SHOULE necessary safety conditions (equipment, especially on the drink during the process, wa	O NOT BE EXPOS (emergency show hands and face (shing hands afte	ED TO THIS I vers and eyev See section 8 rwards with s	PRODUCT. Trans vash stations in o). Limit manual ti	close proximity), ransfers to small	using persona	l protection
	D Technical recommendations t	-					2)
	It is recommended to have al				the product (Se	e subsection 6.	3)
7.2	Conditions for safe storage, i		compatibiliti	es:			
	A Technical measures for stora	-					
	Store in a cool, dry, well-vent						
	B General conditions for storage	-					
	Avoid sources of heat, radiati	ion, static electric	ity and contac	t with food. For	additional inform	ation see subse	ection 10.5
7.3	Specific end use(s):						
	Except for the instructions alread product.	ly specified it is n	ot necessary f	to provide any sp	ecial recommend	lation regardin	g the uses of this
	TON 8: EXPOSURE CONTROL Control parameters: Substances whose occupational elegislation): There are no applicable occupati	exposure limits ha	ave to be mor	itored in the wor			ntry-specific
	Control parameters: Substances whose occupational	exposure limits ha	ave to be mor	nitored in the wor	ed in the product		
	Control parameters: Substances whose occupational of legislation): There are no applicable occupation DNEL (Workers):	exposure limits ha	ave to be mor	hitored in the wor postances containe Short	ed in the product	Lor	ng exposure
	Control parameters: Substances whose occupational of legislation): There are no applicable occupation DNEL (Workers): Identification	exposure limits ha	ave to be mor its for the sul	nitored in the wor postances containe Short Systemic	ed in the product exposure Local	Lor	ng exposure
	Control parameters: Substances whose occupational of legislation): There are no applicable occupation DNEL (Workers):	exposure limits ha	ave to be mor	itored in the wor ostances containe Short Systemic Non-applicable	ed in the product exposure Local Non-applicable	Lor	ng exposure Local Non-applicable
	Control parameters: Substances whose occupational of legislation): There are no applicable occupation DNEL (Workers): Identification Imidazole	exposure limits ha	ave to be mor its for the sub Oral	nitored in the wor postances containe Short Systemic	ed in the product exposure Local	Lor Systemic Non-applicable	ng exposure
	Control parameters: Substances whose occupational of legislation): There are no applicable occupation DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population):	exposure limits ha	oral	hitored in the wor pstances containe Short Systemic Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	Lor Systemic Non-applicable 1,5 mg/kg	ng exposure Local Non-applicable Non-applicable
	Control parameters: Substances whose occupational of legislation): There are no applicable occupation DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population): Non-applicable	exposure limits ha	oral	hitored in the wor pstances containe Short Systemic Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	Lor Systemic Non-applicable 1,5 mg/kg	ng exposure Local Non-applicable Non-applicable
	Control parameters: Substances whose occupational of legislation): There are no applicable occupation DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population): Non-applicable PNEC:	exposure limits ha	oral	hitored in the wor pstances containe Short Systemic Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	Lor Systemic Non-applicable 1,5 mg/kg	ng exposure Local Non-applicable Non-applicable
	Control parameters: Substances whose occupational of legislation): There are no applicable occupation DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population): Non-applicable PNEC: Identification	exposure limits ha	oral Dermal	hitored in the wor ostances containe Short Non-applicable Non-applicable	ed in the product Exercise Constraints Exe	Lor Systemic Non-applicable 1,5 mg/kg 10,6 mg/m ³	ng exposure Local Non-applicable Non-applicable Non-applicable
	Control parameters: Substances whose occupational of legislation): There are no applicable occupation DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population): Non-applicable PNEC: Identification Imidazole	exposure limits ha	oral Oral Dermal Inhalation	hitored in the wor ostances containe Short Non-applicable Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	Lor Systemic Non-applicable 1,5 mg/kg 10,6 mg/m ³	ng exposure Local Non-applicable Non-applicable Non-applicable
	Control parameters: Substances whose occupational of legislation): There are no applicable occupation DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population): Non-applicable PNEC: Identification	exposure limits ha	oral Dermal	hitored in the wor ostances containe Short Non-applicable Non-applicable Non-applicable	ed in the product Exercise Local Non-applicable Non-applicable Fresh water Fresh water	Lor Systemic Non-applicable 1,5 mg/kg 10,6 mg/m ³	ng exposure Local Non-applicable Non-applicable Non-applicable
<u>5ECT</u>	Control parameters: Substances whose occupational of legislation): There are no applicable occupation DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population): Non-applicable PNEC: Identification Imidazole CAS: 288-32-4	exposure limits ha	Oral Dermal Inhalation STP Soil	hitored in the wor pstances containe Short Non-applicable Non-applicable Non-applicable	ed in the product Exercise Local Non-applicable Non-applicable Non-applicable Fresh water Marine water	Image: Constraint of the system ic syst	Ing exposure Local Non-applicable Non-applicable Non-applicable 0,13 mg/L 0,013 mg/L
8.1	Control parameters: Substances whose occupational of legislation): There are no applicable occupation DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population): Non-applicable PNEC: Identification Imidazole CAS: 288-32-4	exposure limits ha	Oral Dermal Inhalation STP Soil Intermittent	hitored in the wor pstances contained Short Systemic Non-applicable Non-applicable Non-applicable Non-applicable 10 mg/L 0,043 mg/kg 1,3 mg/L	ed in the product Exposure Local Non-applicable Non-applicable Non-applicable Fresh water Fresh water Sediment (Fresh	Image: Constraint of the system ic syst	ng exposure Local Non-applicable Non-applicable Non-applicable 0,13 mg/L 0,013 mg/L 0,336 mg/kg
	Control parameters: Substances whose occupational of legislation): There are no applicable occupation 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	exposure limits ha	Oral Dermal Inhalation STP Soil Intermittent Oral	hitored in the wor ostances contained Short Non-applicable Non-applicable Non-applicable 10 mg/L 0,043 mg/kg 1,3 mg/L Non-applicable	ed in the product Exposure Local Non-applicable Non-applicable Non-applicable Fresh water Fresh water Sediment (Fresh	Lor Systemic Non-applicable 1,5 mg/kg 10,6 mg/m³	ng exposure Local Non-applicable Non-applicable Non-applicable 0,13 mg/L 0,013 mg/L 0,336 mg/kg



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101		CONTROLS/PERSONA				
	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 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 hands				
	Pictogram	PPE	Labelling	CEN Standard		Remarks
	Mandatory hand protection	Chemical protective gloves (Material: PVC, Breakthrough time: > 480 min, Thickness: 0.7 mm)	CATI	EN ISO 21420:2020	Rep	lace the gloves at any sign of deterioration
D E	Eye and face prot	ection			•	
	Pictogram	PPE	Labelling	CEN Standard		Remarks
Ī	Mandatory face protection	Face shield		EN 166:2002 EN 167:2002 EN 168:2002 EN ISO 4007:2018		n daily and disinfect periodically accordin nanufacturer´s instructions. Use if there risk of splashing.
E 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 periodicall ording to the manufacturer's instructions
	Mandatory foot protection	Safety footwear for protection against chemical risk	CATI	EN ISO 20345:2011 EN 13832-1:2019	R	eplace boots at any sign of deterioration.
F /	Additional emerge	ency measures				
	Emergency mea	asure St	andards	Emergency measure	ure	Standards
	Emergency sho	ISO 3864-1:20	SI Z358-1 111, ISO 3864-4:201	1 Eyewash station	าร	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
Env	ironmental exp	osure controls:				
		ne community legislation f product and its container.				nmended to avoid environmental .D
Vola	atile organic co	mpounds:				
With	regard to Directi	ive 2010/75/EU, this prod	luct has the follo	wing characteristics:		
١	V.O.C. (Supply):	0 % v	weight			
١	V.O.C. density at	20 °C: 0 kg/	m³ (0 g/L)			
	Average carbon r	number: Non-a	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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te of o	compilation: 23/06/2020 Revised: 12/10/2023	Version: 2 (Replaced 1)
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:	
	Density at 20 °C:	1110,8 kg/m³
	Relative density at 20 °C:	1,111
	Dynamic viscosity at 20 °C:	Non-applicable *
	Kinematic viscosity at 20 °C:	Non-applicable *
	Kinematic viscosity at 40 °C:	Non-applicable *
	Concentration:	Non-applicable *
	pH:	7,2
	Vapour density at 20 °C:	Non-applicable *
	Partition coefficient n-octanol/water 20 °C:	Non-applicable *
	Solubility in water at 20 °C:	Non-applicable *
	Solubility properties:	Non-applicable *
	Decomposition temperature:	Non-applicable *
	Melting point/freezing point:	Non-applicable *
	Flammability:	
	Flash Point:	Non Flammable (>60 °C)
	Flammability (solid, gas):	Non-applicable *
	Autoignition temperature:	480 °C
	Lower flammability limit:	Non-applicable *
	Upper flammability limit:	Non-applicable *
	Particle characteristics:	
	Median equivalent diameter:	Non-applicable
9.2	Other information:	
	Information with regard to physical hazard clas	ises:
	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 *
		Non-applicable * rmation property of its hazards.

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e of compilation: 23/06/202	0 Revised: 12/10/2023	Version: 2 (Replac	ed 1)						
SECTION 9: PHYSICAL A	AND CHEMICAL PROPERTIE	S (continued)							
Refraction index: Non-applicable *									
*Not relevant due to the nature of the product, not providing information property of its hazards.									
SECTION 10: STABILITY	AND REACTIVITY								
10.1 Reactivity:									
No hazardous reactio Safety Data Sheet. 10.2 Chemical stability:	ns are expected because the pro	oduct is stable under recor	nmended storage conditio	ons. See section 7 from					
Chemically stable und	ler the indicated conditions of st	orage, handling and use.							
10.3 Possibility of hazar	dous 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:									
Applicable for handlin Shock and friction	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 (CO₂), 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: TOXICOLOGICA	L INFORMATION (conti	nued)					
	E- Sensitizing effects:							
	hazardous with sensitis - Skin: Based on availa	n available data, the classifing effects. For more inform able data, the classification of t. For more information sec kicity (STOT) - single expose	nation see section 3 criteria are not met, e section 3.	3.				
		, the classification criteria a formation see section 3. cicity (STOT)-repeated expo		es not contain sub	stances classified as ha	azardous for		
	it does not contain subs - Skin: Based on availa	toxicity (STOT)-repeated e stances classified as hazard able data, the classification o t. For more information sec	lous for this effect. criteria are not met,	For more informa	ation see section 3.			
		, the classification criteria a formation see section 3.	re not met, as it doe	es not contain sub	stances classified as ha	azardous for		
	Non-applicable							
	Specific toxicology inform	mation on the substance	s:					
		Identification		A	cute toxicity	Genus		
	Imidazole			LD50 oral	500 mg/kg (ATEi)			
	CAS: 288-32-4			LD50 dermal	>2000 mg/kg			
	FC. 20C 010 2				- "			
	EC: 206-019-2 LC50 inhalation >5 mg/L Information on other hazards:							
11.2		zards:		LC50 inhalation	>5 mg/L			
11.2				LC50 inhalation	>5 mg/L			
11.2	Information on other ha	perties	meet the criteria.	LC50 inhalation	>5 mg/L			
11.2	Information on other ha Endocrine disrupting pro	perties	meet the criteria.	LCSU inhalation	>5 mg/L			
11.2	Information on other ha Endocrine disrupting pro Endocrine-disrupting proper	perties	meet the criteria.	LCSU inhalation	>5 mg/L	I		
11.2	Information on other ha Endocrine disrupting pro Endocrine-disrupting proper Other information	perties	meet the criteria.	LCS0 inhalation	>5 mg/L			
	Information on other ha Endocrine disrupting proper Endocrine-disrupting proper Other information Non-applicable	perties ties: The product does not	meet the criteria.	LCSU inhalation	>5 mg/L	·		
SECT	Information on other ha Endocrine disrupting proper Endocrine-disrupting proper Other information Non-applicable ION 12: ECOLOGICAL IN	perties ties: The product does not IFORMATION						
SECT! The ex	Information on other has Endocrine disrupting pro- Endocrine-disrupting proper Other information Non-applicable ION 12: ECOLOGICAL IN xperimental information relat	perties ties: The product does not IFORMATION ed to the eco-toxicological p	properties of the pro	duct itself is not a	available			
SECT. The ex Based	Information on other has Endocrine disrupting provent Endocrine-disrupting proper Other information Non-applicable ION 12: ECOLOGICAL IN Experimental information relat	perties ties: The product does not IFORMATION ed to the eco-toxicological p fication criteria are not met,	properties of the pro	duct itself is not a	available	or this effect.		
SECTI The ex Based For mo	Information on other has Endocrine disrupting provents Endocrine-disrupting proper Other information Non-applicable ION 12: ECOLOGICAL IN Experimental information relat on available data, the classific ore information see section	perties ties: The product does not IFORMATION ed to the eco-toxicological p fication criteria are not met,	properties of the pro	duct itself is not a	available	or this effect.		
SECTI The ex Based For mo	Information on other has Endocrine disrupting proper Other information Non-applicable ION 12: ECOLOGICAL IN experimental information relat on available data, the classif ore information see section Toxicity:	perties ties: The product does not IFORMATION ed to the eco-toxicological p fication criteria are not met,	properties of the pro	duct itself is not a	available	r this effect.		
SECTI The ex Based For mo 12.1	Information on other has Endocrine disrupting pro- Endocrine-disrupting proper Other information Non-applicable ION 12: ECOLOGICAL IN experimental information relat on available data, the classif ore information see section Toxicity: Not available	perties ties: The product does not a IFORMATION ed to the eco-toxicological p fication criteria are not met, 3.	properties of the pro	duct itself is not a	available	r this effect.		
SECTI The ex Based For mo 12.1	Information on other has Endocrine disrupting proper Other information Non-applicable ION 12: ECOLOGICAL IN experimental information related on available data, the classifi ore information see section Toxicity: Not available Persistence and degrada	perties ties: The product does not a IFORMATION ed to the eco-toxicological p fication criteria are not met, 3.	properties of the pro	duct itself is not a	available	or this effect.		
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- CONTINUED ON NEXT PAGE -

Revised: 12/10/2023



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

legislation

CZ0120 - Laccase A, Bacillus subtilis

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:

	UN number or ID number:	Non-applicable
	UN proper shipping name:	Non-applicable
14.3		Non-applicable
	Labels:	Non-applicable
	Packing group:	Non-applicable
	Environmental hazards:	No
14.6	Special precautions for user	
	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	Non-applicable
	instruments:	
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
	Transport hazard class(es):	Non-applicable
14.3	Transport hazard class(es): Labels:	Non-applicable Non-applicable
14.3 14.4	Transport hazard class(es): Labels: Packing group:	Non-applicable Non-applicable Non-applicable
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant:	Non-applicable Non-applicable
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user	Non-applicable Non-applicable Non-applicable No
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations:	Non-applicable Non-applicable Non-applicable
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes:	Non-applicable Non-applicable Non-applicable No
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties:	Non-applicable Non-applicable No Non-applicable See section 9
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities:	Non-applicable Non-applicable No Non-applicable See section 9 Non-applicable
14.3 14.4 14.5 14.6	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group:	Non-applicable Non-applicable No Non-applicable See section 9 Non-applicable Non-applicable
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group: Maritime transport in bulk according to IMO	Non-applicable Non-applicable No Non-applicable See section 9 Non-applicable
14.3 14.4 14.5 14.6	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group: Maritime transport in bulk	Non-applicable Non-applicable No Non-applicable See section 9 Non-applicable Non-applicable
14.3 14.4 14.5 14.6 14.7	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group: Maritime transport in bulk according to IMO	Non-applicable Non-applicable No Non-applicable See section 9 Non-applicable Non-applicable

Revised: 12/10/2023

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NZYtech

CZ0120 - Laccase A, Bacillus subtilis

23/06/2020 Revised: 1	12/10/2023	Version: 2 (Replaced 1)			
RANSPORT INFORMATION	I (continued)				
With regard to IATA/ICAO 2023:					
UN number or ID number	Non-applicable				
UN proper shipping name	: Non-applicable	2			
Transport hazard class(es)	: Non-applicable	2			
Labels:	Non-applicable	2			
Packing group:	Non-applicable	2			
Environmental hazards:	No				
Special precautions for use	er				
Physico-Chemical properties:	see section 9				
Maritime transport in bulk according to IMO instruments:	Non-applicable				
	RANSPORT INFORMATION and to IATA/ICAO 2023: UN number or ID number UN proper shipping name Transport hazard class(es) Labels: Packing group: Environmental hazards: Special precautions for use Physico-Chemical properties: Maritime transport in bulk according to IMO	RANSPORT INFORMATION (continued) ard to IATA/ICAO 2023: UN number or ID number: UN proper shipping name: Transport hazard class(es): Labels: Packing group: Environmental hazards: Special precautions for user Physico-Chemical properties: Maritime transport in bulk according to IMO			

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

CZ0120 - Laccase A, Bacillus subtilis

Date of compilation: 23/06/2020	Revised: 12/10/2023	Version: 2 (Replaced 1)
SECTION 16: OTHER INFORM	1ATION ** (continued)	
COMMISSION REGULATION (EU) 2020/878 CLP Regulation (EC) No 1272/2008 (SECTION 2, SECTION 16): · Hazard statements Texts of the legislative phrases mentioned in section 2:		
H315: Causes skin irritation H360D: May damage the u H319: Causes serious eye	nborn child.	
Texts of the legislative phrases mentioned in section 3:		
The phrases indicated do n individual components whi		; they are present merely for informative purposes and refer to the
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 trainin	•	
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.