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

8 NZYtech

CZ0771 - Arabinofuranosidase 51B, Bacillus subtilis

	compilation: 23/06/ TION 1: IDENTIF	2020 Revised: 12/10/2023 Version: 2 (Replaced 1) ICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING	
1.1	Product identifi	er: CZ0771 - Arabinofuranosidase 51B, <i>Bacillus subtilis</i>	
		Glycerol	
	CAS:	56-81-5	
	EC:	200-289-5	
	Index:	Non-applicable	
	REACH:	01-2119471987-18-XXXX	
	Other means of	identification:	
	Non-applicable		
1.2	Relevant identif	ied uses of the substance or mixture and uses advised against:	
	Relevant uses: La	boratory. For professional users only.	
	Uses advised aga	inst: All uses not specified in this section or in section 7.3	
1.3	Details of the su	upplier 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	,	phone number: Contact Local Poison Information Center or Local Emergency Number	
SEC	TION 2: HAZARD	S IDENTIFICATION **	
2.1	Classification of	f 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

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

legislation



CZ0771 - Arabinofuranosidase 51B, Bacillus subtilis

Date of compilation: 23/06/2020

Version: 2 (Replaced 1)

SECTION 2: HAZARDS IDENTIFICATION ** (continued)

Product does not meet PBT/vPvB criteria

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

Revised: 12/10/2023

** Changes with regards to the previous version

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Chemical description: Mixture of substances

Components:

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

	Identification		Chemical name/Classification		
CAS:	288-32-4	Imidazole ⁽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:

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

legislation

CZ0771 - Arabinofuranosidase 51B, Bacillus subtilis

Date of compilation: 23/06/2020

Revised: 12/10/2023

Version: 2 (Replaced 1)

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

of c	ompilation: 23/06/2020	Revised: 12/10/	/2023 Ve	rsion: 2 (Replace	d 1)		
CTI	ION 7: HANDLING AND	STORAGE (contir	nued)				
	 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 proces D Technical recommendat	-		uitable cleaning p	products.		
	It is recommended to h			lose proximity to	the product (Se	e subsection 6	5.3)
2	Conditions for safe stor				, ,		,
	A Technical measures for		•				
	Store in a cool, dry, we	5	1				
	B General conditions for						
	Avoid sources of heat,	2	tricity and conta	t with food. For a	additional inform	ation see subs	section 10.5
3	Specific end use(s):						
:C11	ION 8: EXPOSURE CON	TROLS/PERSONA	L PROTECTION	I			
	Control parameters: Substances whose occupat legislation): There are no applicable occ DNEL (Workers):	tional exposure limit	s have to be mor	itored in the work			intry-specific
	Control parameters: Substances whose occupat legislation): There are no applicable occ	tional exposure limit	s have to be mor	itored in the work			untry-specific ng exposure
	Control parameters: Substances whose occupat legislation): There are no applicable occ	tional exposure limit	s have to be mor	itored in the work	d in the product		
	Control parameters: Substances whose occupat legislation): There are no applicable occ DNEL (Workers): Identifica Imidazole	tional exposure limit	s have to be mor limits for the sul <u>Oral</u>	itored in the work ostances containe Short Systemic Non-applicable	d in the product exposure Local Non-applicable	Lo Systemic Non-applicable	ng exposure Local Non-applicable
	Control parameters: Substances whose occupat legislation): There are no applicable occ DNEL (Workers): Identification Imidazole CAS: 288-32-4	tional exposure limit	s have to be mor limits for the sul Oral Dermal	itored in the work pstances containe Short Systemic Non-applicable Non-applicable	d in the product exposure Local Non-applicable Non-applicable	Lo Systemic Non-applicable 1,5 mg/kg	ng exposure Local Non-applicable Non-applicable
	Control parameters: Substances whose occupat legislation): There are no applicable occ DNEL (Workers): Identifica Imidazole	tional exposure limit cupational exposure ation	s have to be mor limits for the sul <u>Oral</u>	itored in the work ostances containe Short Systemic Non-applicable	d in the product exposure Local Non-applicable	Lo Systemic Non-applicable	ng exposure Local Non-applicable
	Control parameters: Substances whose occupatile legislation): There are no applicable occ DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population Non-applicable	tional exposure limit cupational exposure ation	s have to be mor limits for the sul Oral Dermal	itored in the work estances containe Short Systemic Non-applicable Non-applicable	d in the product exposure Local Non-applicable Non-applicable	Lo Systemic Non-applicable 1,5 mg/kg	ng exposure Local Non-applicable Non-applicable
	Control parameters: Substances whose occupat legislation): There are no applicable occ DNEL (Workers): Identifica Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population Non-applicable PNEC: Identifica Imidazole	tional exposure limit cupational exposure ation	s have to be mor limits for the sul Oral Dermal Inhalation	itored in the work estances containe Short Systemic Non-applicable Non-applicable Non-applicable	d in the product exposure Local Non-applicable Non-applicable Fresh water	Lo Systemic Non-applicable 1,5 mg/kg	ng exposure Local Non-applicable Non-applicable Non-applicable
	Control parameters: Substances whose occupat legislation): There are no applicable occ DNEL (Workers): Identifica Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population Non-applicable PNEC: Identifica Imidazole CAS: 288-32-4 EC:	tional exposure limit cupational exposure ation	s have to be mor limits for the sul Oral Dermal Inhalation STP Soil	itored in the work ostances containe Short Systemic Non-applicable Non-applicable Non-applicable	d in the product exposure Local Non-applicable Non-applicable Non-applicable Fresh water Marine water	Lo 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 occupat legislation): There are no applicable occ DNEL (Workers): Identifica Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population Non-applicable PNEC: Identifica Imidazole	tional exposure limit cupational exposure ation	s have to be mor limits for the sul Oral Dermal Inhalation	itored in the work estances containe Short Systemic Non-applicable Non-applicable Non-applicable	d in the product exposure Local Non-applicable Non-applicable Fresh water	Lo Systemic Non-applicable 1,5 mg/kg 10,6 mg/m ³	ng exposure Local Non-applicable Non-applicable Non-applicable
2	Control parameters: Substances whose occupat legislation): There are no applicable occ DNEL (Workers): Identifica Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population Non-applicable PNEC: Identifica Imidazole CAS: 288-32-4 EC:	tional exposure limit cupational exposure ation	s have to be mor limits for the sul Oral Dermal Inhalation STP Soil Intermittent	itored in the work stances containe Short Systemic Non-applicable Non-applicable Non-applicable 10 mg/L 1,3 mg/L	d in the product exposure Local Non-applicable Non-applicable Non-applicable Fresh water Fresh water Sediment (Fresh	Lo Systemic Non-applicable 1,5 mg/kg 10,6 mg/m ³	ng exposure Local Non-applicable Non-applicable Non-applicable

B.- Respiratory protection

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

CZ0771 - Arabinofuranosidase 51B, Bacillus subtilis

		,	NAL PROTECTIO			
	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 glove (Material: PVC, Breakthroug time: > 480 min, Thickness 0.7 mm)	ih 🚺 🛑	EN ISO 21420:2020	Rep	lace the gloves at any sign of deterioration
D	Eye and face prot	ection				
	Pictogram	PPE	Labelling	CEN Standard		Remarks
	Mandatory face protection	Face shield	CAT II	EN 166:2002 EN 167:2002 EN 168:2002 EN ISO 4007:2018		n daily and disinfect periodically according nanufacturer 's instructions. Use if there is risk of splashing.
E	Body protection					
	Pictogram	PPE	Labelling	CEN Standard		Remarks
	Mandatory complete body protection	Disposable clothing for protection against chemica 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 periodically ording to the manufacturer's instructions.
	Mandatory foot protection	Safety footwear for protection against chemica 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	Standards	Emergency measure	ure	Standards
	Emergency sho	ISO 3864-1	ANSI Z358-1 2011, ISO 3864-4:202	11 Eyewash station	าร	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
Εnv	vironmental exp	osure controls:				
In a spil	accordance with th	e community legislatio product and its contain		on of the environment it is information see subsecti		nmended to avoid environmental .D
	-	ive 2010/75/EU, this pr	oduct has the foll	owing characteristics.		
	V.O.C. (Supply):		% weight			
	V.O.C. density at		g/m ³ (0 g/L)			
	Average carbon n		n-applicable			
	raciage carbon n		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.



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

CZ0771 - Arabinofuranosidase 51B, Bacillus subtilis

te of co	ompilation: 23/06/2020 Revised: 12/10/2023	Version: 2 (Replaced 1)
SECTI	ION 9: PHYSICAL AND CHEMICAL PROPERTIES	S (continued)
	For complete information see the product datasheet.	
	Appearance:	
	Physical state at 20 ºC:	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 ºC:	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	sses:
	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 info	

Safety data sheet legislation

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

CZ0771 - Arabinofuranosidase 51B, Bacillus subtilis

ate of compilation: 23/06/2020 Revised: 12/10/2023 Version: 2 (Replaced 1)						
SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)						
	Refraction index: Non-applicable *					
	*Not relevant due to the nature of the product, not providing information property of its hazards.					
SECT	SECTION 10: STABILITY AND REACTIVITY					
10.1	Reactivity:					
10.2	No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.					
	Chemically stable under the	indicated conditions of st	orage, handling and use.			
10.3	Possibility of hazardous	reactions:				
	Under the specified condition	ns, hazardous reactions t	hat lead to excessive temp	peratures or pressure are	not expected.	
10.4	Conditions to avoid:					
	Applicable for handling and	storage at room temperat	ture:			
	Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity	
	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
10.5	Incompatible materials:					
	Acids	Water	Oxidising materials	Combustible materials	Others	
	Avoid strong acids	Not applicable	Precaution	Not applicable	Avoid alkalis or strong bases	

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.

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

8 NZYtech

CZ0771 - Arabinofuranosidase 51B, Bacillus subtilis

Date of o	compilation: 23/06/2020	Revised: 12/10/2023	Version: 2 (Re	placed 1)		
SECT	TON 11: TOXICOLOGICAL	INFORMATION (continued	d)			
	E- Sensitizing effects:					
	 Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3. Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3. F- Specific target organ toxicity (STOT) - single exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3. 					
		ity (STOT)-repeated exposure:	:			
	it does not contain substa - Skin: Based on availab	oxicity (STOT)-repeated expos ances classified as hazardous f le data, the classification criter For more information see sec	for this effect. I ia are not met,	For more informat	ion see section 3.	
	Based on available data, t this effect. For more info Other information:	he classification criteria are no rmation see section 3.	t met, as it doe	s not contain subs	tances classified as ha	zardous for
	Non-applicable					
	Specific toxicology inform	ation on the substances:				
		Identification		Αςι	ute toxicity	Genus
	Imidazole			LD50 oral	500 mg/kg (ATEi)	
	CAS: 288-32-4 EC: 206-019-2			LD50 dermal LC50 inhalation	>2000 mg/kg >5 mg/L	
11 2	Information on other haz	ardei			25 mg/L	
	Endocrine disrupting prop Endocrine-disrupting propertien Other information Non-applicable	es: The product does not meet	the criteria.			
SECT	TON 12: ECOLOGICAL INF	ORMATION				
Basec For m	xperimental information related d on available data, the classific nore information see section 3. Toxicity:	ation criteria are not met, as it				r this effect.
	Not available					
12.2	Persistence and degradab	ility:				
	Not available					
12.3	Bioaccumulative potential	:				
	Not available					
12.4	Mobility in soil:	4 Mobility in soil:				
	Not available					
12.5	Not available Results of PBT and vPvB assessment:					
176	Product does not meet PBT/v	PvB criteria				
12.0	Product does not meet PBT/v Endocrine disrupting prop	PvB criteria erties:				
	Product does not meet PBT/v Endocrine disrupting prop Endocrine-disrupting properti	PvB criteria	the criteria.			
	Product does not meet PBT/v Endocrine disrupting prop	PvB criteria erties:	the criteria.			

- 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 NZYtech

CZ0771 - Arabinofuranosidase 51B, 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:

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

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

legislation CZ0771 - Arabinofuranosidase 51B, Bacillus subtilis

: 23/06/2020 Rev	ised: 12/10/2023	Version: 2 (Replaced 1)
TRANSPORT INFORM	ATION (continued)	
ard to IATA/ICAO 2023:		
UN number or ID nu	mber: Non-applicable	2
UN proper shipping	name: Non-applicable	2
Transport hazard cla	ss(es): Non-applicable	2
Labels:	Non-applicable	2
Packing group:	Non-applicabl	e
Environmental haza	r ds: No	
Special precautions f	or user	
Physico-Chemical prope	rties: see section 9	
Maritime transport in according to IMO instruments:	bulk Non-applicabl	e
	TRANSPORT INFORMA ard to IATA/ICAO 2023: UN number or ID nu UN proper shipping in Transport hazard class Labels: Packing group: Environmental hazar Special precautions f Physico-Chemical prope Maritime transport in according to IMO	TRANSPORT INFORMATION (continued) ard to IATA/ICAO 2023: UN number or ID number: Non-applicable UN proper shipping name: Non-applicable Transport hazard class(es): Non-applicable Labels: Non-applicable Packing group: Non-applicable Environmental hazards: No Special precautions for user Non-applicable Physico-Chemical properties: see section 9 Maritime transport in bulk 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 ashtravs.

-tricks and jokes,

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

Specific provisions in terms of protecting people or the environment:

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

Other legislation:

The product could be affected by sectorial legislation

15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

SECTION 16: OTHER INFORMATION **

Legislation related to safety data sheets:

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

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

** Changes with regards to the previous version

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

CZ0771 - Arabinofuranosidase 51B, Bacillus subtilis

Date of compilation: 23/06/2020	Revised: 12/10/2023	Version: 2 (Replaced 1)
SECTION 16: OTHER INFORM	IATION ** (continued)	
COMMISSION REGULATION CLP Regulation (EC) No 127 · Hazard statements	(EU) 2020/878 2/2008 (SECTION 2, SECTION 2) (SECTION 2	ON 16):
Texts of the legislative p H315: Causes skin irritation H360D: May damage the ur H319: Causes serious eye i	nborn child.	tion 2:
	ohrases mentioned in sec	tion 3:
The phrases indicated do n individual components whi		; they are present merely for informative purposes and refer to the
CLP Regulation (EC) No Acute Tox. 4: H302 - Harm Eye Dam. 1: H318 - Causes Repr. 1B: H360D - May dan Skin Corr. 1C: H314 - Cause	ful if swallowed. s serious eye damage.	e damage.
Advice related to trainin		
	order to prevent industrial data sheet, as well as the	risks for staff using this product and to facilitate their comprehension and label on the product.
Principal bibliographical		
http://echa.europa.eu http://eur-lex.europa.eu		
Abbreviations and acron	yms:	
IMDG: International maritin IATA: International Air Tra ICAO: International Civil Av COD: Chemical Oxygen De	me dangerous goods code nsport Association iation Organisation mand	I carriage of dangerous goods by road
BOD5: 5day biochemical ox BCF: Bioconcentration factor LD50: Lethal Dose 50 LC50: Lethal Concentration	or	
EC50: Effective concentration LogPOW: Octanolwater par Koc: Partition coefficient of	on 50 tition coefficient	
UFI: unique formula identit IARC: International Agency	fier	

** 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.