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

NZYtech

CZ0306 - Cellulase 5A, Clostridium cellulovorans

Date of	compilation: 23/06/20	020 Revised: 12/10/2023 Version: 2 (Replaced 1)
SECT	TION 1: IDENTIFIC	CATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1	Product identifie	r: CZ0306 - Cellulase 5A, Clostridium cellulovorans
		Glycerol
	CAS:	56-81-5
	EC:	200-289-5
	Index:	Non-applicable
	REACH:	01-2119471987-18-XXXX
	Other means of i	dentification:
	Non-applicable	
1.2	Relevant identifie	ed uses of the substance or mixture and uses advised against:
	Relevant uses: Labo	oratory. For professional users only.
	Uses advised again	st: All uses not specified in this section or in section 7.3
1.3	Details of the sup	oplier of the safety data sheet:
	NZYTech Estrada do Paco do 1649-038 Lisboa - info@nzytech.com www.nzytech.com	Lumiar Campus do Lumiar - Edif. E, r/c Lisboa - Portugal
1.4	Emergency telep	hone number: Contact Local Poison Information Center or Local Emergency Number
SECT	TION 2: HAZARDS	IDENTIFICATION **
2.1	Classification of t	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	(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:

Safety data sheet legislation

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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 ex	kposure
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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Γ						
	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 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)	n 🕻 🗲 🗌	EN ISO 21420:2020	Rep	lace the gloves at any sign of deterioration
D I	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 İ	Body protection	·				
[Pictogram	PPE	Labelling	CEN Standard		Remarks
	Mandatory complete body protection	Disposable clothing for protection against chemical risks		EN 13034:2005+A1:2009 EN 168:2002 EN ISO 13982- 1:2004/A1:2010 EN ISO 6529:2013 EN ISO 6530:2005 EN 464:1994		r professional use only. Clean periodically ording to the manufacturer's instructions.
	Mandatory foot protection	Safety footwear for protection against chemical risk		EN ISO 20345:2011 EN 13832-1:2019	R	eplace boots at any sign of deterioration.
F /	Additional emerge	ency measures				
	Emergency mea	asure	Standards	Emergency measu	ure	Standards
	Emergency sho	ISO 3864-1:2	NSI Z358-1 2011, ISO 3864-4:201:	1 Eyewash station	าร	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
Env	ironmental exp	osure controls:				
In a	ccordance with th	ne community legislatior				nmended to avoid environmental
	age of both the p atile organic co		r. For additional i	nformation see subsect	ion 7.1	.D
	-	-	duct has the falle	wing characteristics		
	V.O.C. (Supply):	ive 2010/75/EU, this pro				
			weight			
	V.O.C. density at		g/m ³ (0 g/L)			
	Average carbon r	iumper: Non	-applicable			

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

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



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SECTIO	N 9: PHYSICAL AND CHEMICAL PROPERTIES	(continued)
Fo	or complete information see the product datasheet.	
Aj	ppearance:	
Ph	nysical state at 20 °C:	Liquid
Ap	ppearance:	Not available
Co	blour:	Colourless
O	dour:	Odourless
Oc	dour threshold:	Non-applicable *
Vo	olatility:	
Bo	piling point at atmospheric pressure:	Non-applicable *
Va	apour pressure at 20 °C:	Non-applicable *
Va	apour pressure at 50 °C:	Non-applicable *
Εv	vaporation rate at 20 °C:	Non-applicable *
Pr	roduct description:	
De	ensity at 20 °C:	1110,8 kg/m³
Re	elative density at 20 ºC:	1,111
Dy	ynamic viscosity at 20 °C:	Non-applicable *
Kii	nematic viscosity at 20 °C:	Non-applicable *
Kii	nematic viscosity at 40 °C:	Non-applicable *
Co	oncentration:	Non-applicable *
p⊦	1:	7,2
Va	apour density at 20 °C:	Non-applicable *
Pa	artition coefficient n-octanol/water 20 °C:	Non-applicable *
Sc	olubility in water at 20 ºC:	Non-applicable *
Sc	olubility properties:	Non-applicable *
De	ecomposition temperature:	Non-applicable *
Me	elting point/freezing point:	Non-applicable *
FI	ammability:	
Fla	ash Point:	Non Flammable (>60 °C)
Fla	ammability (solid, gas):	Non-applicable *
Au	utoignition temperature:	480 °C
Lo	wer flammability limit:	Non-applicable *
Up	oper flammability limit:	Non-applicable *
Pa	article characteristics:	
Me	edian equivalent diameter:	Non-applicable
9.2 O	ther information:	
In	formation with regard to physical hazard class	ses:
Ex	plosive properties:	Non-applicable *
0>	xidising properties:	Non-applicable *
Co	prrosive to metals:	Non-applicable *
He	eat of combustion:	Non-applicable *
CO	erosols-total percentage (by mass) of flammable omponents: ther safety characteristics:	Non-applicable *
	urface tension at 20 ºC:	Non-applicable *
*N	lot 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	of the product, not providing info	prmation property of its hazards.						
SECT	ION 10: STABILITY AND) REACTIVITY							
10.1									
10.2	No hazardous reactions are Safety Data Sheet. Chemical stability:	e expected because the pro	oduct is stable under reco	mmended storage condition	ons. See section 7 from				
	Chemically stable under the	e indicated conditions of st	corage, handling and use.						
10.3	Possibility of hazardous	reactions:							
	Under the specified condition	ons, hazardous reactions t	hat lead to excessive temp	peratures or pressure are i	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 INFORMATIO	ON (continued)			
	F- Sensitizing effects:				
 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. 					
	 G- Specific target organ toxicity (STOT)-rep. Specific target organ toxicity (STOT) it does not contain substances classified Skin: Based on available data, the clas hazardous for this effect. For more infor H- Aspiration hazard: 	repeated exposure: Base I as hazardous for this ef ssification criteria are no	fect. For more informa	ation see section 3.	
	Based on available data, the classification this effect. For more information see see Other information:		it does not contain sub	ostances classified as haz	ardous for
	Non-applicable	, ubstances			
	Specific toxicology information on the	substances:			
	Identification			cute toxicity	Genus
	Imidazole CAS: 288-32-4		LD50 oral LD50 dermal	500 mg/kg (ATEi)	
	EC: 206-019-2		LD30 dermai	>2000 mg/kg	
			LC50 inhalation	>5 mg/L	
11.2	Information on other hazards:		LC50 inhalation	>5 mg/L	
11.2	Information on other hazards: Endocrine disrupting properties Endocrine-disrupting properties: The product Other information Non-applicable	t does not meet the crite		>5 mg/L	
11.2	Endocrine disrupting properties Endocrine-disrupting properties: The product Other information	t does not meet the crite		>5 mg/L	
	Endocrine disrupting properties Endocrine-disrupting properties: The product Other information	t does not meet the crite		>5 mg/L	
SECT The e Basec For m	Endocrine disrupting properties Endocrine-disrupting properties: The product Other information Non-applicable ION 12: ECOLOGICAL INFORMATION experimental information related to the eco-tox on available data, the classification criteria and ore information see section 3. Toxicity:	vicological properties of t	ia. ne product itself is not	available	this effect.
SECT The e Basec For m 12.1	Endocrine disrupting properties Endocrine-disrupting properties: The product Other information Non-applicable ION 12: ECOLOGICAL INFORMATION experimental information related to the eco-tox on available data, the classification criteria and ore information see section 3. Toxicity: Not available	vicological properties of t	ia. ne product itself is not	available	this effect.
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SECT The e Basec For m 12.1 12.2 12.3 12.4	Endocrine disrupting properties Endocrine-disrupting properties: The product Other information Non-applicable ION 12: ECOLOGICAL INFORMATION experimental information related to the eco-tox on available data, the classification criteria and ore information see section 3. Toxicity: Not available Persistence and degradability: Not available Bioaccumulative potential: Not available Mobility in soil:	vicological properties of t	ia. ne product itself is not	available	this effect.
SECT The e Basec For m 12.1 12.2 12.3 12.4	Endocrine disrupting properties Endocrine-disrupting properties: The product Other information Non-applicable ION 12: ECOLOGICAL INFORMATION Experimental information related to the eco-tox on available data, the classification criteria and ore information see section 3. Toxicity: Not available Persistence and degradability: Not available Bioaccumulative potential: Not available Mobility in soil: Not available	vicological properties of t	ia. ne product itself is not	available	this effect.
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SECT The e Basec For m 12.1 12.2 12.3 12.4 12.5	Endocrine disrupting properties Endocrine-disrupting properties: The product Other information Non-applicable ION 12: ECOLOGICAL INFORMATION Experimental information related to the eco-tox on available data, the classification criteria and ore information see section 3. Toxicity: Not available Persistence and degradability: Not available Bioaccumulative potential: Not available Mobility in soil: Not available Results of PBT and vPvB assessment: Product does not meet PBT/vPvB criteria Endocrine disrupting properties:	kicological properties of tl re not met, as it does not	ia. ne product itself is not contain substances cla	available	this effect.
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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:

Limited quantities:Non-applicable14.7Maritime transport in bulk according to IMO instruments:Non-applicableTransport of dangerous goods by sea:Non-applicableWith regard to IMDG 40-20:Non-applicable14.1UN number or ID number:Non-applicable14.2UN proper shipping name:Non-applicable14.3Transport hazard class(es): Labels:Non-applicable14.4Packing group:Non-applicable14.5Marine pollutant:No14.6Special precautions for user Special regulations:Non-applicableEmS Codes: Physico-Chemical properties: Segregation group:see section 914.7Maritime transport in bulk according to IMO instruments:Non-applicable14.7Maritime transport in bulk according to IMO instruments:Non-applicable	14.2 14.3 14.4 14.5	UN number or ID number: UN proper shipping name: Transport hazard class(es): Labels: Packing group: Environmental hazards: Special precautions for user Special regulations: Tunnel restriction code: Physico-Chemical properties:	Non-applicable Non-applicable Non-applicable Non-applicable No Non-applicable Non-applicable Non-applicable see section 9
according to IMO instruments:Iten upplicableTransport of dangerous goods by sea:With regard to IMDG 40-20:14.1UN number or ID number:Non-applicable14.2UN proper shipping name:Non-applicable14.3Transport hazard class(es): Labels:Non-applicable14.4Packing group:Non-applicable14.5Marine pollutant:No14.6Special precautions for userNon-applicable14.6Special regulations:Non-applicableEmS Codes:Physico-Chemical properties:see section 9Limited quantities:Non-applicableSegregation group:Non-applicable14.7Maritime transport in bulk according to IMO instruments:Non-applicable			Non-applicable
With regard to IMDG 40-20:14.1UN number or ID number:Non-applicable14.2UN proper shipping name:Non-applicable14.3Transport hazard class(es):Non-applicable14.3Transport hazard class(es):Non-applicable14.4Packing group:Non-applicable14.5Marine pollutant:No14.6Special precautions for userNon-applicableSpecial regulations:Non-applicableEmS Codes:Non-applicablePhysico-Chemical properties:see section 9Limited quantities:Non-applicableSegregation group:Non-applicable14.7Maritime transport in bulk according to IMO instruments:Non-applicable	14.7	according to IMO	
14.1UN number or ID number:Non-applicable14.2UN proper shipping name:Non-applicable14.3Transport hazard class(es):Non-applicable14.3Transport hazard class(es):Non-applicable14.4Packing group:Non-applicable14.5Marine pollutant:No14.6Special precautions for userNon-applicableEmS Codes:Physico-Chemical properties:see section 9Limited quantities:Non-applicableSegregation group:Non-applicable14.7Maritime transport in bulk according to IMO instruments:Non-applicable	Transpor	t of dangerous goods by sea:	
14.2UN proper shipping name:Non-applicable14.3Transport hazard class(es):Non-applicableLabels:Non-applicable14.4Packing group:Non-applicable14.5Marine pollutant:No14.6Special precautions for userNon-applicableSpecial regulations:Non-applicableEmS Codes:Physico-Chemical properties:Segregation group:Non-applicableSegregation group:Non-applicable14.7Maritime transport in bulk according to IMO instruments:Non-applicable	With rega	rd to IMDG 40-20:	
14.3Transport hazard class(es):Non-applicable Non-applicableLabels:Non-applicable14.4Packing group:Non-applicable14.5Marine pollutant:No14.6Special precautions for user Special regulations:Non-applicableEmS Codes:Non-applicablePhysico-Chemical properties:see section 9Limited quantities:Non-applicableSegregation group:Non-applicable14.7Maritime transport in bulk according to IMO instruments:Non-applicable		•••••••••••••••••••••••••••••••••••••••	••
14.4Packing group:Non-applicable14.5Marine pollutant:No14.6Special precautions for userNon-applicableSpecial regulations:Non-applicableEmS Codes:Non-applicablePhysico-Chemical properties:see section 9Limited quantities:Non-applicableSegregation group:Non-applicable14.7Maritime transport in bulk according to IMO instruments:Non-applicable		Transport hazard class(es):	Non-applicable
14.6Special precautions for userSpecial regulations:Non-applicableEmS Codes:Physico-Chemical properties:Physico-Chemical properties:see section 9Limited quantities:Non-applicableSegregation group:Non-applicable14.7Maritime transport in bulk according to IMO instruments:Non-applicable	14.4	Packing group:	
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:	14.5	Marine pollutant:	No
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	14.6	Special precautions for user	
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		Special regulations:	Non-applicable
Limited quantities: Non-applicable Segregation group: Non-applicable 14.7 Maritime transport in bulk Non-applicable according to IMO instruments: Non-applicable		EmS Codes:	
Segregation group: Non-applicable 14.7 Maritime transport in bulk Non-applicable according to IMO instruments:			
14.7 Maritime transport in bulk Non-applicable according to IMO instruments:		-	
according to IMO instruments:			
Transport of dangerous goods by air:	14.7	according to IMO	Non-applicable
	Transpo	rt of dangerous goods by air:	

Revised: 12/10/2023

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

NZYtech

CZ0306 - Cellulase 5A, *Clostridium cellulovorans*

sed: 12/10/2023 Version: 2 (Replaced 1)			
SECTION 14: TRANSPORT INFORMATION (continued)			
With regard to IATA/ICAO 2023:			
nber: Non-applicable			
ame: Non-applicable			
s(es): Non-applicable			
Non-applicable			
Non-applicable			
ds: No			
or user			
ties: see section 9			
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 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

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

NZYtech

CZ0306 - Cellulase 5A, Clostridium cellulovorans

Date of compilation: 23/06/2020	Revised: 12/10/2023	Version: 2 (Replaced 1)	
SECTION 16: OTHER INFORMA	ATION ** (continued)		
COMMISSION REGULATION CLP Regulation (EC) No 1272 · Hazard statements		ON 16):	
Texts of the legislative pl H315: Causes skin irritation. H360D: May damage the unl H319: Causes serious eye ir	oorn child.	tion 2:	
Texts of the legislative pl	rases mentioned in sec	tion 3:	
The phrases indicated do no individual components which		they are present merely for informative purposes and refer to the	
CLP Regulation (EC) No 1 Acute Tox. 4: H302 - Harmfu Eye Dam. 1: H318 - Causes Repr. 1B: H360D - May dama Skin Corr. 1C: H314 - Cause	Il if swallowed. serious eye damage. age the unborn child.	e damage	
Advice related to training	Skin Corr. 1C: H314 - Causes severe skin burns and eye damage.		
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 s			
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 parti Koc: Partition coefficient of UFI: unique formula identifie	organic carbon		
IARC: International Agency f			

** 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.