

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

legislation

CZ0078 - Carbohydrate Binding Module 2A, Thermobifida fusca

Date of	compilation: 23/06/20	020 Revised: 12/10/2023 Version: 2 (Replaced 1)
SEC	TION 1: IDENTIFIC	CATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1	Product identifie	r: CZ0078 - Carbohydrate Binding Module 2A, Thermobifida fusca
		Ammonium sulphate
	CAS:	7783-20-2
	EC:	231-984-1
	Index:	Non-applicable
	REACH:	01-2119455044-46-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
SEC	TION 2: HAZARDS	IDENTIFICATION **

2.1 Classification of the substance or mixture:

CLP Regulation (EC) No 1272/2008:

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

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

2.2 Label elements:

CLP Regulation (EC) No 1272/2008:

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

Danger

(!)

Hazard statements:

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

Precautionary statements:

P201: Obtain special instructions before use.

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

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

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

Substances that contribute to the classification

Imidazole (CAS: 288-32-4)

Additional Labelling:

Restricted to professional users

2.3 Other hazards:

** Changes with regards to the previous version

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SECTION 2: HAZARDS IDENTIFICATION ** (continued)

Product does not meet PBT/vPvB criteria

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

** Changes with regards to the previous version

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Chemical description: Mixture of substances

Components:

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

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

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

4.2 Most important symptoms and effects, both acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of any immediate medical attention and special treatment needed:

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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

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0	compilation: 23/06/2020 Re	evised: 12/10/2023 V	ersion: 2 (Replace	ed 1)		
SEC	TION 7: HANDLING AND STOP	RAGE (continued)				
	Product is non-flammable und to avoid the generation of ele conditions and materials that	ectrostatic charges that can a				
	C Technical recommendations o		ne			
	PREGNANT WOMEN SHOULD necessary safety conditions (equipment, especially on the drink during the process, was D Technical recommendations to	emergency showers and eye hands and face (See section & shing hands afterwards with	wash stations in o 3). Limit manual tr suitable cleaning	close proximity), ransfers to small	using persona	l protection
		•		the product (Co	a subsection 6	2)
7 7	It is recommended to have ab			i the product (Se	e subsection o.	3)
7.2	Conditions for safe storage, in		les:			
	A Technical measures for storage					
	Store in a cool, dry, well-venti					
	B General conditions for storag	e				
	Avoid sources of heat, radiation	on, static electricity and conta	ect with food. For a	additional inform	ation see subse	ection 10.5
7.3	Specific end use(s):					
	Except for the instructions alread product.	y specified it is not necessary	to provide any sp	ecial recommen	dation regardin	g the uses of this
8.1	Control parameters: Substances whose occupational e legislation): There are no applicable occupation					ntry-specific
8.1	Substances whose occupational e legislation):		Ibstances containe	ed in the product		
3.1	Substances whose occupational e legislation): There are no applicable occupatio DNEL (Workers):		bstances containe	ed in the product	Lon	g exposure
8.1	Substances whose occupational elegislation): There are no applicable occupation DNEL (Workers): Identification		Short Short	ed in the product exposure Local	Lon Systemic	g exposure
8.1	Substances whose occupational e legislation): There are no applicable occupatio DNEL (Workers):	onal exposure limits for the su	bstances containe	ed in the product	Lon	g exposure
8.1	Substances whose occupational elegislation): There are no applicable occupation DNEL (Workers): Identification Imidazole	onal exposure limits for the su Oral	Short Systemic Non-applicable	ed in the product exposure Local Non-applicable	Lon Systemic Non-applicable	g exposure Local Non-applicable
8.1	Substances whose occupational elegislation): There are no applicable occupation DNEL (Workers): Identification Imidazole CAS: 288-32-4	onal exposure limits for the su Oral Dermal	Short Systemic Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	Lon Systemic Non-applicable 1,5 mg/kg	g exposure Local Non-applicable Non-applicable
3.1	Substances whose occupational elegislation): There are no applicable occupation DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2	onal exposure limits for the su Oral Dermal	Short Systemic Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	Lon Systemic Non-applicable 1,5 mg/kg	g exposure Local Non-applicable Non-applicable
3.1	Substances whose occupational elegislation): There are no applicable occupation DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population):	onal exposure limits for the su Oral Dermal	Short Systemic Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	Lon Systemic Non-applicable 1,5 mg/kg	g exposure Local Non-applicable Non-applicable
3.1	Substances whose occupational elegislation): There are no applicable occupation DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population): Non-applicable	onal exposure limits for the su Oral Dermal	Short Systemic Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	Lon Systemic Non-applicable 1,5 mg/kg	g exposure Local Non-applicable Non-applicable
8.1	Substances whose occupational elegislation): There are no applicable occupation DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population): Non-applicable PNEC:	onal exposure limits for the su Oral Dermal	Short Systemic Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	Lon Systemic Non-applicable 1,5 mg/kg 10,6 mg/m ³	g exposure Local Non-applicable Non-applicable
8.1	Substances whose occupational elegislation): There are no applicable occupation DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population): Non-applicable PNEC: Identification	Oral Oral Dermal Inhalation	Ibstances containe Short Systemic Non-applicable Non-applicable	ed in the product	Lon Systemic Non-applicable 1,5 mg/kg 10,6 mg/m ³	g exposure Local Non-applicable Non-applicable Non-applicable
3.1	Substances whose occupational elegislation): 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	Oral Oral Dermal Inhalation STP Soil Intermittent	Ibstances containe Short Systemic Non-applicable Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable Non-applicable Fresh water Marine water Sediment (Fresh	Lon Systemic Non-applicable 1,5 mg/kg 10,6 mg/m ³	g exposure Local Non-applicable Non-applicable Non-applicable 0,13 mg/L 0,013 mg/L 0,336 mg/kg
	Substances whose occupational elegislation): 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	Oral Oral Dermal Inhalation STP Soil	Ibstances containe Short Systemic Non-applicable Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable Fresh water Marine water	Lon Systemic Non-applicable 1,5 mg/kg 10,6 mg/m ³	g exposure Local Non-applicable Non-applicable Non-applicable
	Substances whose occupational elegislation): 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 controls:	Oral Oral Dermal Inhalation STP Soil Intermittent Oral	Ibstances containe Short Systemic Non-applicable Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable Non-applicable Fresh water Marine water Sediment (Fresh	Lon Systemic Non-applicable 1,5 mg/kg 10,6 mg/m ³	g exposure Local Non-applicable Non-applicable Non-applicable 0,13 mg/L 0,013 mg/L 0,336 mg/kg
	Substances whose occupational elegislation): 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 controls: A Individual protection measure As a preventative measure it	Oral Oral Dermal Inhalation STP Soil Intermittent Oral es, such as personal protective is recommended to use basic	Ibstances containe Short Non-applicable Non-applicable Non-applicable 10 mg/L 0,043 mg/kg 1,3 mg/L Non-applicable e equipment c Personal Protect	ed in the product exposure Local Non-applicable Non-applicable Non-applicable Fresh water Marine water Sediment (Fresh Sediment (Marin ive Equipment, Marine	Lon Systemic Non-applicable 1,5 mg/kg 10,6 mg/m ³	g exposure Local Non-applicable Non-applicable Non-applicable 0,13 mg/L 0,013 mg/L 0,034 mg/kg 0,034 mg/kg
8.1	Substances whose occupational elegislation): 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 controls: A Individual protection measure	Oral Oral Dermal Inhalation STP Soil Intermittent Oral es, such as personal protective is recommended to use basic h Regulation (EU) 2016/425. class of protection,) consult 1. All information contained	Ibstances containe Short Non-applicable Non-applicable Non-applicable Non-applicable 10 mg/L 0,043 mg/kg 1,3 mg/L Non-applicable e equipment c Personal Protect For more information I herein is a recomr	ed in the product Exposure Local Non-applicable Non-applicable Non-applicable Fresh water Arine water Sediment (Fresh Sediment (Marin ive Equipment, n tion on Personal leaflet provided nendation which	Lon Systemic Non-applicable 1,5 mg/kg 10,6 mg/m ³ 10,6 mg/m ³	g exposure Local Non-applicable Non-applicable Non-applicable Non-applicable 0,13 mg/L 0,013 mg/L 0,034 mg/kg 0,034 mg/kg ponding < <ce pment (storage, turer. For more pecification from</ce

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TION	8: EXPOSURE	CONTROLS/PERSON/	AL PROTECTIO	N (continued)		
	Pictogram	PPE	Labelling	CEN Standard		Remarks
	Mandatory respiratory tract protection	Filter mask for gases and vapours	CAT III	EN 405:2002+A1:2010	C	place when there is a taste or smell of the ontaminant inside the face mask. If the contaminant comes with warnings it is commended to use isolation equipment.
C	Specific protectio	n for the hands				
	Pictogram	PPE	Labelling	CEN Standard		Remarks
	Mandatory hand protection	Chemical protective gloves (Material: PVC, Breakthrough time: > 480 min, Thickness: 0.7 mm)		EN ISO 21420:2020	Rep	lace the gloves at any sign of deterioratic
D	Eye and face prot	ection				
	Pictogram	PPE	Labelling	CEN Standard		Remarks
	Mandatory face protection	Face shield		EN 166:2002 EN 167:2002 EN 168:2002 EN ISO 4007:2018		n daily and disinfect periodically accordin nanufacturer´s instructions. Use if there risk of splashing.
E	Body protection		11			
	Pictogram	PPE	Labelling	CEN Standard		Remarks
	Mandatory complete body protection	Disposable clothing for protection against chemical risks		EN 13034:2005+A1:2009 EN 168:2002 EN ISO 13982- 1:2004/A1:2010 EN ISO 6529:2013 EN ISO 6530:2005 EN 464:1994		r professional use only. Clean periodicall ording to the manufacturer's instructions
	Mandatory foot protection	Safety footwear for protection against chemical risk	CAT III	EN ISO 20345:2011 EN 13832-1:2019	R	eplace boots at any sign of deterioration.
F	Additional emerge	ency measures				
	Emergency me	asure S	Standards	Emergency measure	ure	Standards
	Emergency she	ISO 3864-1:2	NSI Z358-1 011, ISO 3864-4:2011	L Eyewash station	IS	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
Env	vironmental exp			1		
In a spil	- accordance with th	ne community legislation product and its container				nmended to avoid environmental .D
	-	ive 2010/75/EU, this pro	duct has the follo	wing characteristics:		
	V.O.C. (Supply):	· · · ·	weight	-		
	V.O.C. density at		/m ³ (0 g/L)			
	Average carbon r	-	applicable			
	Average molecula		applicable			

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES 9.1

Information on basic physical and chemical properties:

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

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SECT	TION 9: PHYSICAL AND CHEMICAL PROPERTIES	G (continued)
	For complete information see the product datasheet.	
	Appearance:	
	Physical state at 20 °C:	Liquid
	Appearance:	Not available
	Colour:	Greenish
	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:	1279,9 kg/m³
	Relative density at 20 °C:	1,28
	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: Particle characteristics:	Non-applicable *
	Median equivalent diameter:	Non-applicable
9.2	Other information:	мон-аррисарие
5.2	Information with regard to physical hazard class	505'
	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	Non-applicable *
	components:	
	Other safety characteristics:	
	Surface tension at 20 °C:	Non-applicable *
	*Not relevant due to the nature of the product, not providing inform	mation property of its hazards.

- CONTINUED ON NEXT PAGE -

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SECI	TON 9: PHYSICAL AND	CHEMICAL PROPERT	IES (continued)			
	Refraction index:		Non-applicable *			
*Not relevant due to the nature of the product, not providing information property of its hazards.						
SECT	ION 10: STABILITY AND) REACTIVITY				
.0.1	Reactivity:					
L 0.2	No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 fron Safety Data Sheet. .2 Chemical stability:					
	Chemically stable under the	e indicated conditions of	storage, handling and use.			
L 0.3	Possibility of hazardous	reactions:				
Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.						
	Under the specified condition	ons, hazardous reactions	s that lead to excessive temp	eratures or pressure are	not expected.	
10.4	Under the specified condition Conditions to avoid:	ons, hazardous reactions	s that lead to excessive temp	eratures or pressure are	not expected.	
10.4	•			eratures or pressure are	not expected.	
L 0.4	Conditions to avoid:		rature:	eratures or pressure are		
10.4	Conditions to avoid: Applicable for handling and	l storage at room tempe			e not expected. Humidity Not applicable	
	Conditions to avoid: Applicable for handling and Shock and friction	storage at room tempe Contact with air Not applicable	rature: Increase in temperature	Sunlight	Humidity	
	Conditions to avoid: Applicable for handling and Shock and friction Not applicable	storage at room tempe Contact with air Not applicable	rature: Increase in temperature	Sunlight	Humidity	

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:

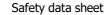
- A- Ingestion (acute effect):
 - Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
 - Corrosivity/Irritability: The consumption of a considerable dose can cause 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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_	· · ·	Revised: 12/10/2023					
SECT	ION 11: TOXICOLOGICAL	. INFORMATION (contin	ued)				
	E- Sensitizing effects:						
	hazardous with sensitisin - Skin: Based on availa	available data, the classific ng effects. For more informa ble data, the classification cr . For more information see city (STOT) - single exposur	ation see section 3 riteria are not met, section 3.	· 3.			
	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)-repeated exposure:						
	 Specific target organ it does not contain subst Skin: Based on availal 	coxicity (STOT)-repeated exposi- coxicity (STOT)-repeated exp cances classified as hazardo ole data, the classification cr . For more information see	posure: Based on a ous for this effect. I riteria are not met,	For more inform	ation see section 3.		
	Based on available data, this effect. For more info Other information:	the classification criteria are prmation see section 3.	e not met, as it doe	es not contain sul	ostances classified as h	azardous for	
	Non-applicable						
	Specific toxicology inform	ation on the substances:	:				
		Identification		Δ	cute toxicity	Genus	
	Imidazole	Identification		LD50 oral		Genus	
					500 mg/kg (ATEI)		
	CAS: 288-32-4			LD50 dermal	500 mg/kg (ATEi) >2000 mg/kg		
1.2		perties	neet the criteria.				
1.2	CAS: 288-32-4 EC: 206-019-2 Information on other has Endocrine disrupting prop	perties	neet the criteria.	LD50 dermal	>2000 mg/kg		
	CAS: 288-32-4 EC: 206-019-2 Information on other has Endocrine disrupting propert Endocrine-disrupting propert Other information	perties ies: The product does not m	neet the criteria.	LD50 dermal	>2000 mg/kg		
SECT The ex Based	CAS: 288-32-4 EC: 206-019-2 Information on other has Endocrine disrupting propert Other information Non-applicable	berties ies: The product does not m FORMATION d to the eco-toxicological pr cation criteria are not met, a	roperties of the pro	LD50 dermal LC50 inhalation	>2000 mg/kg >5 mg/L available	or this effect.	
ECT The exact of the second se	CAS: 288-32-4 EC: 206-019-2 Information on other has Endocrine disrupting propert Other information Non-applicable ION 12: ECOLOGICAL IN experimental information relate on available data, the classifi ore information see section 3 Toxicity:	FORMATION d to the eco-toxicological pr cation criteria are not met, a	roperties of the pro	LD50 dermal LC50 inhalation	>2000 mg/kg >5 mg/L available	or this effect.	
ECT The exact of the form the	CAS: 288-32-4 EC: 206-019-2 Information on other has Endocrine disrupting prop Endocrine-disrupting propert Other information Non-applicable ION 12: ECOLOGICAL IN experimental information related on available data, the classifi ore information see section 3 Toxicity: Not available	FORMATION d to the eco-toxicological pr cation criteria are not met, a	roperties of the pro	LD50 dermal LC50 inhalation	>2000 mg/kg >5 mg/L available	or this effect.	
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This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation **NZYtech**

CZ0078 - Carbohydrate Binding Module 2A, Thermobifida fusca

Date of compilation: 23/06/2020

Revised: 12/10/2023

Version: 2 (Replaced 1)

> 1	Wasta tra	atmont mathaday								
3.I	waste tre	atment methods:		Waste class (Regulation (EU) No						
	Code		Description	1357/2014)						
		It is not possible to assign a specific	code, as it depends on the intended use by the user	Dangerous						
	Type of w	aste (Regulation (EU) No 135	7/2014):							
	HP10 Toxic	c for reproduction								
	Waste management (disposal and evaluation):									
	2 (Directive the produce Waste sho	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:								
			C) No 1907/2006 (REACH) the community or state	provisions related to waste						
	-	ent are stated								
	Community	legislation: Directive 2008/98/EC,	2014/955/EU, Regulation (EU) No 1357/2014							
ECTI	ON <u>14: T</u>	RANSPORT INFORMATION								
	-									
	-	rt of dangerous goods by land: ard to ADR 2023 and RID 2023:								
		UN number or ID number:	Non applicable							
		UN proper shipping name:	Non-applicable Non-applicable							
		Transport hazard class(es):	Non-applicable							
	14.5	Labels:	Non-applicable							
	14.4	Packing group:	Non-applicable							
		Environmental hazards:	Non-applicable							
	-	Special precautions for user								
	14.0	Special regulations:	Non-applicable							
		Tunnel restriction code:	Non-applicable							
		Physico-Chemical properties:	see section 9							
		Limited quantities:	Non-applicable							
	14.7	Maritime transport in bulk according to IMO instruments:	Non-applicable							
	Transpor	t of dangerous goods by sea:								
		rd to IMDG 40-20:								
	-	UN number or ID number:	Non applicable							
		UN proper shipping name:	Non-applicable Non-applicable							
		Transport hazard class(es):	Non-applicable							
	14.5	Labels:	Non-applicable							
	14.4	Packing group:	Non-applicable							
		Marine pollutant:	No							
		Special precautions for user								
		Special regulations:	Non-applicable							
		EmS Codes:								
		Physico-Chemical properties:	see section 9							
		Limited quantities:	Non-applicable							
		Segregation group:	Non-applicable							
	14.7	Maritime transport in bulk according to IMO instruments:	Non-applicable							
	Transpor	nstruments: rt of dangerous goods by air:								

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CZ0078 - Carbohydrate Binding Module 2A, Thermobifida fusca

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

SECTION 15: REGULATORY INFORMATION

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

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

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

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

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

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

Seveso III:

Non-applicable

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

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

Shall not be used in:

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

—tricks and jokes,

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

Specific provisions in terms of protecting people or the environment:

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

Other legislation:

The product could be affected by sectorial legislation

15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

SECTION 16: OTHER INFORMATION **

Legislation related to safety data sheets:

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

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

** Changes with regards to the previous version

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CZ0078 - Carbohydrate Binding Module 2A, Thermobifida fusca

Date of compilation: 23/06/2020 Revised: 12/10/2023	Version: 2 (Replaced 1)
SECTION 16: OTHER INFORMATION ** (continued	d)
COMMISSION REGULATION (EU) 2020/878 CLP Regulation (EC) No 1272/2008 (SECTION 2, SE · Hazard statements	CTION 16):
Texts of the legislative phrases mentioned in H315: Causes skin irritation. H360D: May damage the unborn child. H319: Causes serious eye irritation.	section 2:
Texts of the legislative phrases mentioned in	section 3:
The phrases indicated do not refer to the product it individual components which appear in section 3	self; 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	eve damage.
Advice related to training:	
Training is recommended in order to prevent indust interpretation of this safety data sheet, as well as	rial risks for staff using this product and to facilitate their comprehension and 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 internati IMDG: International maritime dangerous goods co 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.