

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

legislation

CZ0093 - Carbohydrate Binding Module 2D, Thermobifida fusca

Date of	compilation: 23/06	/2020 Revised: 12/10/2023 Version: 2 (Replaced 1)
SEC	FION 1: IDENTI	FICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1	Product identif	fier: CZ0093 - Carbohydrate Binding Module 2D, Thermobifida fusca
		Ammonium sulphate
	CAS:	7783-20-2
	EC:	231-984-1
	Index:	Non-applicable
	REACH:	01-2119455044-46-XXXX
	Other means o	f identification:
	Non-applicable	
1.2	Relevant identi	ified uses of the substance or mixture and uses advised against:
	Relevant uses: La	aboratory. For professional users only.
	Uses advised aga	ainst: All uses not specified in this section or in section 7.3
1.3	Details of the s	upplier of the safety data sheet:
1.4	Emergency tele	ephone number: Contact Local Poison Information Center or Local Emergency Number
SEC	ΓΙΟΝ 2. ΗΔΖΑΒΓ	OS 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.

Revised: 12/10/2023

** Changes with regards to the previous version

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Chemical description: Mixture of substances

Components:

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

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

⁽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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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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	compilation: 23/06/2020 Rev	vised: 12/10/2023	ver	sion: 2 (Replace	ea 1)		
SECT	FION 7: HANDLING AND STORA	AGE (continued)					
	Product is non-flammable unde to avoid the generation of elec conditions and materials that s C Technical recommendations on	trostatic charges th should be avoided.	at can aff	ect flammable p			
	PREGNANT WOMEN SHOULD N necessary safety conditions (er equipment, especially on the ha drink during the process, wash D Technical recommendations to	mergency showers a ands and face (See s ning hands afterward	and eyewa section 8). ds with su	ash stations in o Limit manual ti	close proximity), ransfers to small	using personal	protection
	It is recommended to have abso	orbent material avai	lable at cl	ose proximity to	the product (Se	e subsection 6.3)
7.2	Conditions for safe storage, inc	luding any incom	patibilitie	s:			
	A Technical measures for storage						
	Store in a cool, dry, well-ventila	ted location					
	B General conditions for storage						
	Avoid sources of heat, radiation		nd contact	with food. For	additional inform	ation see subsed	tion 10.5
7.3	Specific end use(s):	·,,,					
	Except for the instructions already product.	specified it is not ne	cessary to	provide any sp	ecial recommend	lation regarding	the uses of this
SECT 8.1	TION 8: EXPOSURE CONTROLS/ Control parameters: Substances whose occupational ex legislation):	posure limits have to	o be moni				try-specific
	Control parameters: Substances whose occupational ex	posure limits have to	o be moni				try-specific
	Control parameters: Substances whose occupational ex legislation): There are no applicable occupation	posure limits have to	o be moni	stances containe			try-specific exposure
	Control parameters: Substances whose occupational ex legislation): There are no applicable occupation DNEL (Workers): Identification	posure limits have to	o be moni	stances containe Short Systemic	ed in the product t exposure Local	Long	exposure Local
	Control parameters: Substances whose occupational ex- legislation): There are no applicable occupation DNEL (Workers): Identification Imidazole	posure limits have to al exposure limits fo	o be monit	stances containe Short Systemic Non-applicable	ed in the product t exposure Local Non-applicable	Long Systemic Non-applicable	exposure Local Non-applicable
	Control parameters: Substances whose occupational ex- legislation): There are no applicable occupation DNEL (Workers): Identification Imidazole CAS: 288-32-4	posure limits have to al exposure limits fo Oral Dem	o be monit	Short Systemic Non-applicable	ed in the product t exposure Local Non-applicable Non-applicable	Long Systemic Non-applicable 1,5 mg/kg	exposure Local Non-applicable Non-applicable
	Control parameters: Substances whose occupational ex- legislation): There are no applicable occupation DNEL (Workers): Identification Imidazole	posure limits have to al exposure limits fo	o be monit	stances containe Short Systemic Non-applicable	ed in the product t exposure Local Non-applicable	Long Systemic Non-applicable	exposure Local Non-applicable
	Control parameters: Substances whose occupational ex- legislation): There are no applicable occupation DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2	posure limits have to al exposure limits fo Oral Dem	o be monit	Short Systemic Non-applicable	ed in the product t exposure Local Non-applicable Non-applicable	Long Systemic Non-applicable 1,5 mg/kg	exposure Local Non-applicable Non-applicable
	Control parameters: Substances whose occupational explegislation): There are no applicable occupation DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population):	posure limits have to al exposure limits fo Oral Dem	o be monit	Short Systemic Non-applicable	ed in the product t exposure Local Non-applicable Non-applicable	Long Systemic Non-applicable 1,5 mg/kg	exposure Local Non-applicable Non-applicable
	Control parameters: Substances whose occupational explegislation): There are no applicable occupation DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population): Non-applicable	posure limits have to al exposure limits fo Oral Dem	o be monit	Short Systemic Non-applicable	ed in the product t exposure Local Non-applicable Non-applicable	Long Systemic Non-applicable 1,5 mg/kg	exposure Local Non-applicable Non-applicable
	Control parameters: Substances whose occupational explegislation): 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	posure limits have to al exposure limits fo Oral Derm Inhal STP	o be monit	Short Systemic Non-applicable Non-applicable Non-applicable	ed in the product t exposure Local Non-applicable Non-applicable Fresh water	Long Systemic Non-applicable 1,5 mg/kg 10,6 mg/m ³	exposure Local Non-applicable Non-applicable Non-applicable
	Control parameters: Substances whose occupational explegislation): 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	posure limits have to al exposure limits fo Oral Derm Inhal STP Soil	o be monit	Short Systemic Non-applicable Non-applicable Non-applicable	ed in the product t exposure Local Non-applicable Non-applicable Fresh water Marine water	Long Systemic Non-applicable 1,5 mg/kg 10,6 mg/m³	Local Non-applicable Non-applicable Non-applicable 13 mg/L
	Control parameters: Substances whose occupational explegislation): 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	posure limits have to nal exposure limits fo Oral Derm Inhal STP Soil Inter	o be monit	Short Systemic Non-applicable Non-applicable Non-applicable Non-applicable	ed in the product t exposure Local Non-applicable Non-applicable Non-applicable Fresh water Marine water Sediment (Fresh	Long Systemic Non-applicable 1,5 mg/kg 10,6 mg/m³	exposure Local Non-applicable Non-applicable Non-applicable 13 mg/L 013 mg/L 336 mg/kg
	Control parameters: Substances whose occupational explegislation): 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	posure limits have to al exposure limits fo Oral Derm Inhal STP Soil	o be monit	Short Systemic Non-applicable Non-applicable Non-applicable	ed in the product t exposure Local Non-applicable Non-applicable Fresh water Marine water	Long Systemic Non-applicable 1,5 mg/kg 10,6 mg/m³	Local Non-applicable Non-applicable Non-applicable 13 mg/L
8.1	Control parameters: Substances whose occupational explegislation): 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	posure limits have to nal exposure limits fo Oral Derrr Inhal Soil Inter Soil Inter	o be monif	Short Systemic Non-applicable Non-applicable Non-applicable Non-applicable	ed in the product t exposure Local Non-applicable Non-applicable Non-applicable Fresh water Marine water Sediment (Fresh	Long Systemic Non-applicable 1,5 mg/kg 10,6 mg/m³	exposure Local Non-applicable Non-applicable Non-applicable 13 mg/L 013 mg/L 336 mg/kg

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Pictogram Mandatory respiratory tract protection C Specific protection Pictogram D Eye and face protection D Eye and face protection Pictogram E Body protection Pictogram	PPE Chemical protective gloves (Material: PVC, Breakthrough time: > 480 min, Thickness: 0.7 mm)	Labelling Labelling Labelling Labelling	CEN Standard EN 405:2002+A1:2010 CEN Standard EN ISO 21420:2020 EN 166:2002 EN 166:2002 EN 168:2002 EN 168:2002 EN 168:2002 EN 169 4007:2018	Rep	ontaminant inside the face mask. If the contaminant comes with warnings it is commended to use isolation equipment. Remarks
respiratory tract protection C Specific protection Pictogram Mandatory hand protection D Eye and face protection Pictogram Pictogram E Body protection	vapours on for the hands PPE Chemical protective gloves (Material: PVC, Breakthrough time: > 480 min, Thickness: 0.7 mm) Otection PPE	CAT III	CEN Standard EN ISO 21420:2020 CEN Standard EN 166:2002 EN 167:2002 EN 168:2002	Rep	contaminant comes with warnings it is commended to use isolation equipment. Remarks lace the gloves at any sign of deterioratio
Pictogram Mandatory hand protection D Eye and face pro Pictogram Pictogram Mandatory face protection E Body protection	PPE Chemical protective gloves (Material: PVC, Breakthrough time: > 480 min, Thickness: 0.7 mm) vtection PPE	CAT III	EN ISO 21420:2020 CEN Standard EN 166:2002 EN 167:2002 EN 168:2002	Clean	lace the gloves at any sign of deterioratio
Mandatory hand protection D Eye and face pro Pictogram Mandatory face protection E Body protection	Chemical protective gloves (Material: PVC, Breakthrough time: > 480 min, Thickness: 0.7 mm) tection PPE	CAT III	EN ISO 21420:2020 CEN Standard EN 166:2002 EN 167:2002 EN 168:2002	Clean	lace the gloves at any sign of deterioratic
D Eye and face pro	(Material: PVC, Breakthrough time: > 480 min, Thickness: 0.7 mm) Intection	CAT III	CEN Standard EN 166:2002 EN 167:2002 EN 168:2002	Clean	
Pictogram Pictogram Mandatory face protection E Body protection	PPE	Labelling CAT II	EN 166:2002 EN 167:2002 EN 168:2002		Remarks
Mandatory face protection E Body protection		Labelling CAT II	EN 166:2002 EN 167:2002 EN 168:2002		Remarks
E Body protection	Face shield		EN 167:2002 EN 168:2002		
			LN 130 4007.2010		n daily and disinfect periodically accordin nanufacturer´s instructions. Use if there risk of splashing.
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	Fo	r professional use only. Clean periodicall 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 emerg	jency measures				1
Emergency m	easure S	itandards	Emergency me	easure	Standards
Emergency s	ISO 3864-1:20	ISI Z358-1 011, ISO 3864-4:20	011 Eyewash sta	tions	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

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

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SECT	TON 9: PHYSICAL AND CHEMICAL PROPERTIES	S (continued)
	For complete information see the product datasheet.	
	Appearance:	
	Physical state at 20 °C:	Liquid
	Appearance:	Not available
	Colour:	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:	попаррісале
9.2	Information with regard to physical hazard clas	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 infor	Induon property OFILS fidzafus.

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0201	ION 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					
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. 2 Chemical stability:						
	Chemically stable under the	e indicated conditions of	storage, handling and use.				
L0.3	Possibility of hazardous		5, 5				
	Under the specified condition	ons, hazardous reactions	s that lead to excessive temp	peratures or pressure are	not expected.		
10.4	Conditions to avoid:						
	Applicable for handling and	l storage at room tempe	rature:				
	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		
		Not applicable	Precaution	Not applicable	Avoid alkalis or strong bases		

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.

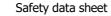
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ECT	TON 11: TOXICOLOGICA	L INFORMATION (contin	nued)			
	E- Sensitizing effects:					
	hazardous with sensitisi - Skin: Based on availa	n available data, the classific ng effects. For more inform ble data, the classification c t. For more information see cicity (STOT) - single exposu	ation see section 3 riteria are not met, section 3.	3.		
	Based on available data, this effect. For more inf G- Specific target organ tox		,	es not contain sub	ostances classified as ha	azardous for
	it does not contain subs - Skin: Based on availa	toxicity (STOT)-repeated ex tances classified as hazardo ble data, the classification c t. For more information see	ous for this effect. riteria are not met,	For more informa	ation see section 3.	
	Based on available data, this effect. For more inf Other information:	the classification criteria are ormation see section 3.	e not met, as it doe	es not contain sub	ostances classified as ha	azardous for
	Non-applicable					
	Specific toxicology inform	nation on the substances	:			
		Identification		A	cute toxicity	Genus
	Imidazole			LD50 oral	500 mg/kg (ATEi)	
					Soo mg/ kg (/ ti El)	
	CAS: 288-32-4			LD50 dermal	>2000 mg/kg	
1.2	CAS: 288-32-4 EC: 206-019-2 Information on other ha Endocrine disrupting pro Endocrine-disrupting proper	perties	neet the criteria.	LD50 dermal LC50 inhalation		
.1.2	EC: 206-019-2 Information on other ha Endocrine disrupting pro	perties	neet the criteria.		>2000 mg/kg	
	EC: 206-019-2 Information on other ha Endocrine disrupting pro Endocrine-disrupting proper Other information Non-applicable	perties ties: The product does not n	neet the criteria.		>2000 mg/kg	
	EC: 206-019-2 Information on other ha Endocrine disrupting pro Endocrine-disrupting proper Other information	perties ties: The product does not n	neet the criteria.		>2000 mg/kg	
ECT he e ased or m	EC: 206-019-2 Information on other has Endocrine disrupting proper Other information Non-applicable TON 12: ECOLOGICAL IN experimental information related on available data, the classification related for information see section 2	perties ties: The product does not n FORMATION ed to the eco-toxicological pl ication criteria are not met, a	roperties of the pro	LC50 inhalation	>2000 mg/kg >5 mg/L available	or this effect.
ECT he e ased or m	EC: 206-019-2 Information on other ha Endocrine disrupting proper Other information Non-applicable TON 12: ECOLOGICAL IN xperimental information related to available data, the classif isore information see section 3 Toxicity:	perties ties: The product does not n FORMATION ed to the eco-toxicological pl ication criteria are not met, a	roperties of the pro	LC50 inhalation	>2000 mg/kg >5 mg/L available	or this effect.
ECT he e: ased or m 2.1	EC: 206-019-2 Information on other has Endocrine disrupting proper Other information Non-applicable TION 12: ECOLOGICAL IN experimental information related on available data, the classific iore information see section 3 Toxicity: Not available	perties ties: The product does not n FORMATION ed to the eco-toxicological pr ication criteria are not met, a 3.	roperties of the pro	LC50 inhalation	>2000 mg/kg >5 mg/L available	or this effect.
ECT he e: ased or m 2.1	EC: 206-019-2 Information on other has Endocrine disrupting proper Other information Non-applicable ION 12: ECOLOGICAL IN experimental information related on available data, the classiff isore information see section 3 Toxicity: Not available Persistence and degradal	perties ties: The product does not n FORMATION ed to the eco-toxicological pr ication criteria are not met, a 3.	roperties of the pro	LC50 inhalation	>2000 mg/kg >5 mg/L available	or this effect.
ECT he eased or m 2.1 2.2	EC: 206-019-2 Information on other has Endocrine disrupting proper Other information Non-applicable TON 12: ECOLOGICAL IN experimental information related on available data, the classification information see section of Toxicity: Not available Persistence and degradad Not available	perties ties: The product does not n FORMATION ed to the eco-toxicological pu ication criteria are not met, a 3.	roperties of the pro	LC50 inhalation	>2000 mg/kg >5 mg/L available	or this effect.
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Revised: 12/10/2023



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

CZ0093 - Carbohydrate Binding Module 2D, Thermobifida fusca

Date of compilation: 23/06/2020

Revised: 12/10/2023

Version: 2 (Replaced 1)

1 Waste t	eatment methods:									
Code		Description	Waste class (Regulation (EU) No 1357/2014)							
	It is not possible to assign a	Dangerous								
Type of	waste (Regulation (EU) No	n 1357/2014):								
	HP10 Toxic for reproduction									
	Waste management (disposal and evaluation):									
Consult t 2 (Direct the prod Waste sh	ne authorized waste service n ve 2008/98/EC). As under 15	nanager on the assessment and disposal operations 5 01 (2014/955/EC) of the code and in case the com ame way as the actual product. Otherwise, it will be rains. See paragraph 6.2.	tainer has been in direct contact with							
		tion (EC) No 1907/2006 (REACH) the community or s	state provisions related to waste							
-	nent are stated									
Commun	ty legislation: Directive 2008/	98/EC, 2014/955/EU, Regulation (EU) No 1357/2014								
TION 14:	TRANSPORT INFORMATIO	N								
Trance	ort of dangerous goods by	land:								
-	gard to ADR 2023 and RID 20									
	1 UN number or ID numb									
	2 UN proper shipping nar									
	Transport hazard class									
	Labels:	Non-applicable								
14.4	Packing group:	Non-applicable								
	Environmental hazards:	No								
	Special precautions for									
	Special regulations:	Non-applicable								
	Tunnel restriction code:	Non-applicable								
	Physico-Chemical propertie									
	Limited quantities:	Non-applicable								
14.7	Maritime transport in bu according to IMO instruments:	Ik Non-applicable								
Transp	ort of dangerous goods by	sea:								
-	ard to IMDG 40-20:									
•	1 UN number or ID numb	er: Non-applicable								
	2 UN proper shipping nar									
	Transport hazard class									
	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	s: see section 9								
	Limited quantities:	Non-applicable								
	Segregation group:	Non-applicable								
14.7	Maritime transport in bu according to IMO instruments:	Ik Non-applicable								
Transp	ort of dangerous goods by	air:								

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CZ0093 - Carbohydrate Binding Module 2D, Thermobifida fusca

Date of compilation:	23/06/2020 Revised: 12	2/10/2023	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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CZ0093 - Carbohydrate Binding Module 2D, Thermobifida fusca

Date of compilation: 23/06/2020	Revised: 12/10/2023	Version: 2 (Replaced 1)
SECTION 16: OTHER INFORMA	TION ** (continued)	
COMMISSION REGULATION CLP Regulation (EC) No 1272 · Hazard statements		ION 16):
Texts of the legislative pl	rases mentioned in sec	ction 2:
H315: Causes skin irritation. H360D: May damage the unl H319: Causes serious eye ir		
Texts of the legislative p		ction 3:
	refer to the product itself	; they are present merely for informative purposes and refer to the
CLP Regulation (EC) No 1	272/2008:	
Acute Tox. 4: H302 - Harmfu Eye Dam. 1: H318 - Causes Repr. 1B: H360D - May dama Skin Corr. 1C: H314 - Causes	serious eye damage. age the unborn child.	ve damage.
Advice related to training		
Training is recommended in interpretation of this safety		risks for staff using this product and to facilitate their comprehension and label on the product.
Principal bibliographical s	ources:	
http://echa.europa.eu http://eur-lex.europa.eu		
Abbreviations and acrony	ms:	
IMDG: International maritim IATA: International Air Tran	e dangerous goods code sport Association	al carriage of dangerous goods by road
ICAO: International Civil Avia COD: Chemical Oxygen Dem BOD5: 5day biochemical oxyg	and	
BCF: Bioconcentration factor LD50: Lethal Dose 50 LC50: Lethal Concentration		
EC50: Effective concentration LogPOW: Octanolwater parti	50	
Koc: Partition coefficient of UFI: unique formula identifie	organic carbon er	
IARC: International Agency f	or 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.