

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

legislation

## CZ0089 - Carbohydrate Binding Module 63A, Bacillus subtilis

	compilation: 23/06/20	
SECT	TION 1: IDENTIFIC	ATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1	Product identifier	: CZ0089 - Carbohydrate Binding Module 63A, <i>Bacillus subtilis</i>
		Ammonium sulphate
	CAS:	7783-20-2
	EC:	231-984-1
	Index:	Non-applicable
	REACH:	01-2119455044-46-XXXX
	Other means of id	entification:
	Non-applicable	
1.2	Relevant identifie	d uses of the substance or mixture and uses advised against:
	Relevant uses: Labo	ratory. For professional users only.
	Uses advised agains	st: All uses not specified in this section or in section 7.3
1.3	Details of the sup	plier of the safety data sheet:
	NZYTech Estrada do Paco do I 1649-038 Lisboa - L info@nzytech.com www.nzytech.com	Lumiar Campus do Lumiar - Edif. E, r/c .isboa - Portugal
1.4	Emergency teleph	none number: Contact Local Poison Information Center or Local Emergency Number
L		
SECT	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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## CZ0089 - Carbohydrate Binding Module 63A, Bacillus subtilis

Date of compilation: 23/06/2020 Revised: 12/10/2023 Version: 2 (Replaced 1)

## SECTION 2: HAZARDS IDENTIFICATION \*\* (continued)

Product does not meet PBT/vPvB criteria

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

\*\* 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		Concentration
CAS:	288-32-4	Imidazole <sup>(1)</sup>		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) (2)	1 - <2,5 %

<sup>(1)</sup> 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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Date of compilation: 23/06/2020

Revised: 12/10/2023

Version: 2 (Replaced 1)

## SECTION 4: FIRST AID MEASURES (continued)

Non-applicable

### SECTION 5: FIREFIGHTING MEASURES

#### 5.1 Extinguishing media:

#### Suitable extinguishing media:

Product is non-flammable under normal conditions of storage, handling and use. In the case of combustion as a result of improper handling, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

## Unsuitable extinguishing media:

Non-applicable

#### 5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

#### 5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

### **Additional provisions:**

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures:

#### For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

#### For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

#### 6.2 **Environmental precautions:**

This product is not classified as hazardous to the environment. Keep product away from drains, surface and ground water.

#### 6.3 Methods and material for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

#### 6.4 Reference to other sections:

See sections 8 and 13.

### SECTION 7: HANDLING AND STORAGE

#### 7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6).

B.- Technical recommendations for the prevention of fires and explosions

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e or	compilation: 23/06/2020	Revised: 12/1	10/2023 Ve	ersion: 2 (Replace	d 1)		
EC	TION 7: HANDLING AND	STORAGE (con	itinued)				
	Product is non-flammat to avoid the generatior conditions and materia	of electrostatic	charges that can a				
	C Technical recommendat			e			
	PREGNANT WOMEN SH necessary safety condit equipment, especially o drink during the proces D Technical recommendat	tions (emergency on the hands and s, washing hands	v showers and eyev face (See section 8 s afterwards with s	wash stations in c ). Limit manual tr	close proximity), ransfers to small	using personal	protection
	It is recommended to ha			close proximity to	the product (Se	e subsection 6.3	)
7.2	Conditions for safe stora						,
	A Technical measures for	•					
	Store in a cool, dry, wel	0	ion				
	B General conditions for s	-	lastricity and conta	at with food For	additional inform	ation coo cubco	tion 10 F
	Avoid sources of heat, r	adiation, static ei	lectricity and conta	ct with food. For a	additional inform	lation see subsec	tion 10.5
7.3	Specific end use(s):						
	Except for the instructions a product.	already specified	it is not necessary	to provide any sp	ecial recommen	dation regarding	the uses of this
SEC	110N 8: EXPOSURE CON	<b>FROLS/PERSON</b>	IAL PROTECTIO	N			
	<b>Control parameters:</b> Substances whose occupat legislation):	ional exposure lin	nits have to be mor	nitored in the wor			try-specific
	Control parameters: Substances whose occupat	ional exposure lin	nits have to be mor	nitored in the wor	ed in the product		
	Control parameters: Substances whose occupat legislation): There are no applicable occ DNEL (Workers):	ional exposure lin supational exposu	nits have to be mor	hitored in the wor bstances containe Short	ed in the product	Long	exposure
	Control parameters: Substances whose occupat legislation): There are no applicable occ DNEL (Workers): Identifica	ional exposure lin supational exposu	nits have to be mor Ire limits for the su	nitored in the wor ostances containe Short Systemic	ed in the product exposure Local	Long	exposure Local
	Control parameters: Substances whose occupat legislation): There are no applicable occ DNEL (Workers):	ional exposure lin supational exposu	nits have to be mor Ire limits for the sul Oral	nitored in the wor bstances containe Short Systemic Non-applicable	ed in the product exposure Local Non-applicable	Long Systemic Non-applicable	exposure Local Non-applicable
	Control parameters: Substances whose occupat legislation): There are no applicable occ DNEL (Workers): Identifica Imidazole	ional exposure lin supational exposu	nits have to be mor Ire limits for the su	nitored in the wor ostances containe Short Systemic	ed in the product exposure Local	Long	exposure Local
<u>8.1</u>	Control parameters: Substances whose occupat legislation): There are no applicable occ DNEL (Workers): Identifica Imidazole CAS: 288-32-4 EC: 206-019-2	ional exposure lin cupational exposu	nits have to be mor ure limits for the sul Oral Dermal	hitored in the wor bstances containe Short Systemic Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	Long Systemic Non-applicable 1,5 mg/kg	exposure Local Non-applicable Non-applicable
	Control parameters: Substances whose occupat legislation): There are no applicable occ DNEL (Workers): Identificat Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population	ional exposure lin cupational exposu	nits have to be mor ure limits for the sul Oral Dermal	hitored in the wor bstances containe Short Systemic Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	Long Systemic Non-applicable 1,5 mg/kg	exposure Local Non-applicable Non-applicable
	Control parameters: Substances whose occupat legislation): There are no applicable occ DNEL (Workers): Identifica Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population Non-applicable	ional exposure lin cupational exposu	nits have to be mor ure limits for the sul Oral Dermal	hitored in the wor bstances containe Short Systemic Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	Long Systemic Non-applicable 1,5 mg/kg	exposure Local Non-applicable Non-applicable
	Control parameters: Substances whose occupat legislation): There are no applicable occ DNEL (Workers): Identifica Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population Non-applicable PNEC:	ional exposure lin supational exposu tion	nits have to be mor ure limits for the sul Oral Dermal	hitored in the wor bstances containe Short Systemic Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	Long Systemic Non-applicable 1,5 mg/kg	exposure Local Non-applicable Non-applicable
	Control parameters: Substances whose occupat legislation): There are no applicable occ DNEL (Workers): Identifica Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population Non-applicable PNEC: Identifica	ional exposure lin supational exposu tion	nits have to be mor ure limits for the sul Oral Dermal Inhalation	hitored in the wor bstances containe Short Systemic Non-applicable Non-applicable	ed in the product	Long Systemic Non-applicable 1,5 mg/kg 10,6 mg/m <sup>3</sup>	exposure Local Non-applicable Non-applicable Non-applicable
	Control parameters: Substances whose occupat legislation): There are no applicable occ DNEL (Workers): Identifica Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population Non-applicable PNEC:	ional exposure lin supational exposu tion	nits have to be mor ure limits for the sul Oral Dermal	hitored in the wor bstances containe Short Non-applicable Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	Systemic Systemic 1,5 mg/kg 10,6 mg/m <sup>3</sup>	exposure Local Non-applicable Non-applicable Non-applicable
	Control parameters: Substances whose occupat legislation): There are no applicable occ DNEL (Workers): Identifica Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population Non-applicable PNEC: Identifica Imidazole	ional exposure lin supational exposu tion	nits have to be mor ire limits for the sul Oral Dermal Inhalation	hitored in the wor bstances containe Short Systemic Non-applicable Non-applicable	ed in the product	Systemic Systemic 1,5 mg/kg 10,6 mg/m <sup>3</sup>	exposure Local Non-applicable Non-applicable Non-applicable
	Control parameters: Substances whose occupat legislation): There are no applicable occ DNEL (Workers): Identifica Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population Non-applicable PNEC: Identifica Imidazole CAS: 288-32-4	ional exposure lin supational exposu tion	nits have to be mor ire limits for the sul Oral Dermal Inhalation STP Soil	hitored in the wor bstances containe Short Non-applicable Non-applicable Non-applicable 10 mg/L 0,043 mg/kg	ed in the product	Long Systemic Non-applicable 1,5 mg/kg 10,6 mg/m <sup>3</sup>	Local       Non-applicable       Non-applicable       Non-applicable       13 mg/L
	Control parameters: Substances whose occupat legislation): There are no applicable occ DNEL (Workers): Identifica Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population Non-applicable PNEC: Identifica Imidazole CAS: 288-32-4	ional exposure lin supational exposu tion	nits have to be mor ure limits for the sul Oral Dermal Inhalation STP Soil Intermittent	hitored in the wor bstances contained Short Non-applicable Non-applicable Non-applicable 10 mg/L 0,043 mg/kg 1,3 mg/L	ed in the product exposure Local Non-applicable Non-applicable Non-applicable Fresh water Marine water Sediment (Fresh	Long Systemic Non-applicable 1,5 mg/kg 10,6 mg/m <sup>3</sup>	exposure Local Non-applicable Non-applicable Non-applicable 13 mg/L 013 mg/L 336 mg/kg
8.1	Control parameters: Substances whose occupat legislation): There are no applicable occ DNEL (Workers): Identifica Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population Non-applicable PNEC: Identifica Imidazole CAS: 288-32-4 EC: 206-019-2	ional exposure lin supational exposu tion	nits have to be mor ure limits for the sul Oral Dermal Inhalation STP Soil Intermittent Oral	hitored in the wor bstances containe Short Non-applicable Non-applicable Non-applicable 10 mg/L 0,043 mg/kg 1,3 mg/L Non-applicable	ed in the product exposure Local Non-applicable Non-applicable Non-applicable Fresh water Marine water Sediment (Fresh	Long Systemic Non-applicable 1,5 mg/kg 10,6 mg/m <sup>3</sup>	exposure Local Non-applicable Non-applicable Non-applicable 13 mg/L 013 mg/L 336 mg/kg

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## CZ0089 - Carbohydrate Binding Module 63A, Bacillus subtilis

FION	8: EXPOSURE	CONTROLS/PERSON/	AE PROTECTI	ON (continued)		
	Pictogram	PPE	Labelling	CEN Standard		Remarks
	Mandatory respiratory tract protection	Filter mask for gases and vapours	CAT III	EN 405:2002+A1:2010	с	place when there is a taste or smell of th contaminant inside the face mask. If the contaminant comes with warnings it is commended to use isolation equipment
C	Specific protection	n for the hands			•	
	Pictogram	PPE	Labelling	CEN Standard		Remarks
	Mandatory hand protection	Chemical protective 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		1	•		
	Pictogram	PPE	Labelling	CEN Standard		Remarks
	Mandatory complete body protection	Disposable clothing for protection against chemical risks	CAT III	EN 13034:2005+A1:2009 EN 168:2002 EN ISO 13982- 1:2004/A1:2010 EN ISO 6529:2013 EN ISO 6530:2005 EN 464:1994		or professional use only. Clean periodicall cording 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 S	Standards	Emergency mea	sure	Standards
	Emergency sho	ISO 3864-1:2	ISI Z358-1 011, ISO 3864-4:20	111 Eyewash statio	ons	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
En	vironmental exp	osure controls:		·		
In a spi <b>Vo</b>	accordance with th llage of both the p latile organic co	ne community legislation product and its container <b>mpounds:</b> ive 2010/75/EU, this pro	r. For additional	information see subsec		nmended to avoid environmental .D
	V.O.C. density at		/m <sup>3</sup> (0 g/L)			
	Average carbon r	-	applicable			
	Average carboli i		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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## CZ0089 - Carbohydrate Binding Module 63A, *Bacillus subtilis*

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SECT	TON 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:	Non-applicable *
	Particle characteristics:	Nen emlieskie
9.2	Median equivalent diameter: Other information:	Non-applicable
9.2	Information with regard to physical hazard class	5001
	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	mation property of its hazards.

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## CZ0089 - Carbohydrate Binding Module 63A, Bacillus subtilis

	Defination index.		Nen englischle *		
	Refraction index:		Non-applicable *		
	*Not relevant due to the nature of	f the product, not providing i	nformation property of its hazards.		
ECT	ION 10: STABILITY AND	REACTIVITY			
.0.1	Reactivity:				
.0.2	No hazardous reactions are Safety Data Sheet. <b>Chemical stability:</b>	expected because the	product is stable under recor	nmended storage condit	ions. See section 7 from
	Chemically stable under the	e indicated conditions of	storage, handling and use.		
.0.3	Possibility of hazardous	reactions:			
	Under the specified condition	ons, hazardous reactions	s that lead to excessive temp	peratures or pressure are	not expected.
.0.4	Conditions to avoid:				
	Applicable for handling and	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
.0.5	Incompatible materials:				•
	Acids	Water	Oxidising materials	Combustible materials	Others
	Avoid strong acids	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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e of c	compilation: 23/06/2020	Revised: 12/10/2023	Version: 2 (Re	eplaced 1)		
SECT	ION 11: TOXICOLOGICAL	. INFORMATION (contir	nued)			
	E- Sensitizing effects:					
	hazardous with sensitisir - Skin: Based on availal	available data, the classific ng effects. For more inform ole data, the classification c . For more information see city (STOT) - single exposu	nation see section 3 riteria are not met, e section 3.	·		
	Based on available data, this effect. For more info G- Specific target organ toxi			s not contain sub	ostances classified as h	azardous for
	it does not contain subst - Skin: Based on availal	coxicity (STOT)-repeated ex cances classified as hazardo ole data, the classification c . For more information see	ous for this effect. I priteria are not met,	For more informa	ation see section 3.	
	Based on available data, this effect. For more info <b>Other information:</b>	the classification criteria arong the classification criteria arong the classification of the classification o	e not met, as it doe	s not contain sub	ostances classified as h	azardous for
	Non-applicable					
	Specific toxicology inform	nation on the substances	:			
		Identification		А	cute toxicity	Genus
	Imidazole			LD50 oral	500 mg/kg (ATEi)	
	CAS: 288-32-4			LDE0 downal		
				LD50 dermal	>2000 mg/kg	
.1.2	EC: 206-019-2 Information on other haz Endocrine disrupting prop Endocrine-disrupting propert	perties	neet the criteria.	LC50 inhalation	>2000 mg/kg >5 mg/L	
11.2	Information on other has Endocrine disrupting prop Endocrine-disrupting propert Other information	perties	neet the criteria.			
11.2	Information on other has Endocrine disrupting prop Endocrine-disrupting propert	perties	neet the criteria.			
	Information on other has Endocrine disrupting prop Endocrine-disrupting propert Other information Non-applicable	perties ies: The product does not n	neet the criteria.			
SECT.	Information on other has Endocrine disrupting prop Endocrine-disrupting propert Other information Non-applicable ION 12: ECOLOGICAL IN	perties ies: The product does not n FORMATION		LC50 inhalation	>5 mg/L	
SECT.	Information on other has Endocrine disrupting prop Endocrine-disrupting propert Other information Non-applicable	perties ies: The product does not n FORMATION d to the eco-toxicological p	roperties of the pro	LC50 inhalation	>5 mg/L	or this effect.
SECT The ex Based	Information on other has Endocrine disrupting prop Endocrine-disrupting propert Other information Non-applicable ION 12: ECOLOGICAL IN xperimental information relate I on available data, the classifi ore information see section 3	perties ies: The product does not n FORMATION d to the eco-toxicological p cation criteria are not met,	roperties of the pro	LC50 inhalation	>5 mg/L	or this effect.
SECT The ex Based	Information on other has Endocrine disrupting propert Endocrine-disrupting propert Other information Non-applicable ION 12: ECOLOGICAL INI experimental information relate on available data, the classifi ore information see section 3 Toxicity:	perties ies: The product does not n FORMATION d to the eco-toxicological p cation criteria are not met,	roperties of the pro	LC50 inhalation	>5 mg/L	or this effect.
bECT The ex Based For mo	Information on other has Endocrine disrupting propert Endocrine-disrupting propert Other information Non-applicable ION 12: ECOLOGICAL INIT Experimental information related on available data, the classifi ore information see section 3 Toxicity: Not available	perties ies: The product does not n FORMATION d to the eco-toxicological p cation criteria are not met,	roperties of the pro	LC50 inhalation	>5 mg/L	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

## CZ0089 - Carbohydrate Binding Module 63A, Bacillus subtilis

Date of compilation: 23/06/2020

Revised: 12/10/2023

Version: 2 (Replaced 1)

#### SECTION 13: DISPOSAL CONSIDERATIONS 13.1 Waste treatment 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 waste (Regulation (EU) No 1357/2014): HP10 Toxic for reproduction Waste management (disposal and evaluation): Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See paragraph 6.2. **Regulations related to waste management:** In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014 SECTION 14: TRANSPORT INFORMATION Transport of dangerous goods by land: With regard to ADR 2023 and RID 2023: 14.1 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 Special regulations: Non-applicable Tunnel restriction code: Non-applicable see section 9 Physico-Chemical properties: Limited quantities: Non-applicable 14.7 Maritime transport in bulk Non-applicable according to IMO instruments: Transport of dangerous goods by sea: With regard to IMDG 40-20: 14.1 UN number or ID number: Non-applicable Non-applicable 14.2 UN proper shipping name: 14.3 Transport hazard class(es): Non-applicable I abels: Non-applicable 14.4 Packing group: Non-applicable 14.5 Marine pollutant: No 14.6 Special precautions for user Special regulations: Non-applicable EmS Codes: see section 9 Physico-Chemical properties: Limited quantities: Non-applicable Segregation group: Non-applicable 14.7 Maritime transport in bulk Non-applicable according to IMO instruments: Transport of dangerous goods by air: - CONTINUED ON NEXT PAGE -Date of compilation: 23/06/2020 Revised: 12/10/2023 Version: 2 (Replaced 1) Page 9/11

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legislation

## CZ0089 - Carbohydrate Binding Module 63A, Bacillus subtilis

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

This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation **8** NZYtech

## CZ0089 - Carbohydrate Binding Module 63A, Bacillus subtilis

SECTION 16: OTHER INFORMATION ** (continued)         COMMISSION REGULATION (EU) 2020/878         CLP Regulation (EC) No 1272/2008 (SECTION 2, SECTION 16):         · Hazard statements         Texts of the legislative phrases mentioned in section 2:         H315: Causes skin irritation.
CLP Regulation (EC) No 1272/2008 (SECTION 2, SECTION 16): Hazard statements Texts of the legislative phrases mentioned in section 2:
H360D: May damage the unborn child. H319: Causes serious eye irritation.
Texts of the legislative phrases mentioned in section 3:
The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3
CLP Regulation (EC) No 1272/2008: Acute Tox. 4: H302 - Harmful if swallowed.
Eye Dam. 1: H318 - Causes serious eye damage. Repr. 1B: H360D - May damage the unborn child. Skin Corr. 1C: H314 - Causes severe skin burns and eye damage.
Advice related to training:
Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.
Principal bibliographical sources:
http://echa.europa.eu http://eur-lex.europa.eu
Abbreviations and acronyms:
ADR: European agreement concerning the international carriage of dangerous goods by road IMDG: International maritime dangerous goods code
IATA: International Air Transport Association ICAO: International Civil Aviation Organisation COD: Chemical Oxygen Demand
BOD5: 5day biochemical oxygen demand BCF: Bioconcentration factor
LD50: Lethal Dose 50 LC50: Lethal Concentration 50
EC50: Effective concentration 50 LogPOW: Octanolwater partition coefficient
Koc: Partition coefficient of organic carbon UFI: unique formula identifier
IARC: International Agency for Research on Cancer

\*\* Changes with regards to the previous version

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.