

# legislation

## CZ0902 - Arabinanase 43A, Ruminococcus champanellensis

Date of	compilation: 23/06/20	20 Revised: 12/10/2023 Version: 2 (Replaced 1)
SEC	TION 1: IDENTIFIC	ATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1	Product identifier	: CZ0902 - Arabinanase 43A, Ruminococcus champanellensis
		Glycerol
	CAS:	56-81-5
	EC:	200-289-5
	Index:	Non-applicable
	REACH:	01-2119471987-18-XXXX
	Other means of id	entification:
	Non-applicable	
1.2	Relevant identified	d uses of the substance or mixture and uses advised against:
	Relevant uses: Labo	ratory. For professional users only.
	Uses advised agains	t: All uses not specified in this section or in section 7.3
1.3	Details of the sup	plier of the safety data sheet:
1.4	1649-038 Lisboa - L info@nzytech.com www.nzytech.com	-umiar Campus do Lumiar - Edif. E, r/c isboa - Portugal <b>Ione number:</b> Contact Local Poison Information Center or Local Emergency Number
	<i>J</i> ,,	
SEC		IDENTIFICATION **
- SEC	HON Z. HAZAKUS .	
2.1	Classification of the	ne substance or mixture:
	CLP Regulation (E	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 <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	(I) (I) (I) (I) (I) (I) (I) (I) (I) (I)	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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## 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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te of	compilation: 23/06/2020	Revised: 12/10/20	23 Ve	ersion: 2 (Replace	ed 1)		
SECT	FION 7: HANDLING AND	STORAGE (continue	ed)				
	Product is non-flammat to avoid the generatior conditions and materia C Technical recommendat	of electrostatic charg Is that should be avoid	ges that can a ded.	ffect flammable p			
	PREGNANT WOMEN SH necessary safety condit equipment, especially c drink during the proces D Technical recommendat	tions (emergency shown the hands and face ( is, washing hands afte	wers and eyew (See section 8 erwards with s	wash stations in o ). Limit manual tr	close proximity), ransfers to small	using personal	protection
	It is recommended to h	·		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	5					
	B General conditions for						
	Avoid sources of heat, i		rity and conta	ct with food For :	additional inform	ation see subser	tion 10 5
7 7	Specific end use(s):	adiation, static electric					
7.3		alwards, an arifind it is a		to avoido anicon		lation voquuling	the uses of this
	Except for the instructions product.	aiready specified it is n	lot necessary	to provide any sp	ecial recommend	lation regarding	the uses of this
RE CT	TON A EVPOCUDE CON						
SECT	FION 8: EXPOSURE CON	FROLS/PERSONAL F	PROTECTIO	N			
	Control parameters:						
	<b>Control parameters:</b> Substances whose occupat legislation): There are no applicable occ	ional exposure limits h	ave to be mor	nitored in the wor		n OEL, not count	ry-specific
<u>SEC</u> 8.1	Control parameters: Substances whose occupat legislation):	ional exposure limits h	ave 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 limits h supational exposure lin	ave 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 limits h supational exposure lin	ave to be mor nits for the sul	nitored in the wor ostances containe Short Systemic	ed in the product exposure Local	Long Systemic	exposure Local
	Control parameters: Substances whose occupat legislation): There are no applicable occ DNEL (Workers): Identifica Imidazole	ional exposure limits h supational exposure lin	ave to be mor	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	ional exposure limits h supational exposure lin	nave to be mor nits for the sul	nitored in the wor ostances containe Short Systemic	ed in the product exposure Local	Long Systemic	exposure Local
	Control parameters: Substances whose occupat legislation): There are no applicable occ DNEL (Workers): Identifica Imidazole CAS: 288-32-4	ional exposure limits h cupational exposure lin	ave to be mor nits for the sul Oral Dermal	hitored in the wor bstances containe Short Systemic 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 limits h cupational exposure lin	ave to be mor nits for the sul Oral Dermal	hitored in the wor bstances containe Short Systemic 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	ional exposure limits h cupational exposure lin	ave to be mor nits for the sul Oral Dermal	hitored in the wor bstances containe Short Systemic 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 limits h supational exposure lin tion	ave to be mor nits for the sul Oral Dermal	hitored in the wor bstances containe Short Systemic 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 limits h supational exposure lin tion	ave to be mor nits for the sul Oral Dermal	hitored in the wor ostances containe Short Non-applicable Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	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: Identifica	ional exposure limits h supational exposure lin tion	oral Oral Inhalation	hitored in the wor bstances containe Short Systemic Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	Long Systemic Non-applicable 1,5 mg/kg 10,6 mg/m <sup>3</sup>	exposure Local Non-applicable Non-applicable
	Control parameters: Substances whose occupat legislation): There are no applicable occ DNEL (Workers): Identifica Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population Non-applicable PNEC: Identifica Imidazole	ional exposure limits h supational exposure lin tion	Oral Oral Dermal Inhalation	hitored in the wor bstances containe Short Non-applicable Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable Fresh water	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: Identifica Imidazole CAS: 288-32-4	ional exposure limits h supational exposure lin tion	Oral 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  a exposure  Local  Non-applicable  Non-applicable  Fresh water  Marine water	Long       Systemic       Non-applicable       1,5 mg/kg       10,6 mg/m³	exposure Local Non-applicable Non-applicable Non-applicable
3.1	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	ional exposure limits h supational exposure lin tion	Oral Oral Dermal Inhalation STP Soil Intermittent	hitored in the wor bostances containe 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 Karine 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 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 limits h supational exposure lin tion	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 Karine 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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TION	8: EXPOSURE	CONTROLS/PERSONA	L PROTECTIO	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	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 deterioratio
D	Eye and face prot	ection				
	Pictogram	PPE	Labelling	CEN Standard		Remarks
	Mandatory face protection	Face shield	CAT II	EN 166:2002 EN 167:2002 EN 168:2002 EN ISO 4007:2018		n daily and disinfect periodically according nanufacturer 's instructions. Use if there i risk of splashing.
E	Body protection					
	Pictogram	PPE	Labelling	CEN Standard		Remarks
	Mandatory complete body protection	Disposable clothing for protection against chemical risks		EN 13034:2005+A1:2009 EN 168:2002 EN ISO 13982- 1:2004/A1:2010 EN ISO 6529:2013 EN ISO 6530:2005 EN 464:1994		r professional use only. Clean periodically ording to the manufacturer's instructions.
	Mandatory foot protection	Safety footwear for protection against chemical risk		EN ISO 20345:2011 EN 13832-1:2019	R	eplace boots at any sign of deterioration.
F	Additional emerge	ency measures				
	Emergency me	asure St	andards	Emergency meas	ure	Standards
	Emergency sh	ISO 3864-1:20	5I Z358-1 11, ISO 3864-4:20	11 Eyewash station	าร	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
En	vironmental exp	osure controls:				
spi		product and its container.				nmended to avoid environmental .D
	-	ive 2010/75/EU, this prod	luct has the foll	owing 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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SECTION 9	9: PHYSICAL AND CHEMICAL PROPERTIES (	(continued)
For c	omplete information see the product datasheet.	
Арре	earance:	
Physi	ical state at 20 ºC:	Liquid
Арре	arance:	Not available
Colou	ır:	Colourless
Odou	ır:	Odourless
Odou	ir threshold:	Non-applicable *
Vola	tility:	
Boilin	g point at atmospheric pressure:	Non-applicable *
Vapo	ur pressure at 20 °C:	Non-applicable *
Vapo	ur pressure at 50 °C:	Non-applicable *
Evapo	oration rate at 20 °C:	Non-applicable *
Prod	uct description:	
Densi	ity at 20 °C:	1110,8 kg/m <sup>3</sup>
Relat	ive density at 20 °C:	1,111
Dyna	mic viscosity at 20 °C:	Non-applicable *
Kinen	natic viscosity at 20 °C:	Non-applicable *
Kinen	natic viscosity at 40 °C:	Non-applicable *
Conce	entration:	Non-applicable *
pH:		7,2
Vapo	ur density at 20 °C:	Non-applicable *
Partit	ion coefficient n-octanol/water 20 °C:	Non-applicable *
Solub	ility in water at 20 °C:	Non-applicable *
Solub	ility properties:	Non-applicable *
Deco	mposition temperature:	Non-applicable *
Meltir	ng point/freezing point:	Non-applicable *
Flam	mability:	
Flash	Point:	Non Flammable (>60 °C)
Flam	mability (solid, gas):	Non-applicable *
Autoi	gnition temperature:	480 °C
Lowe	r flammability limit:	Non-applicable *
Uppe	r flammability limit:	Non-applicable *
Parti	icle characteristics:	
Media	an equivalent diameter:	Non-applicable
	er information:	
Info	rmation with regard to physical hazard classe	s:
Explo	sive properties:	Non-applicable *
	sing properties:	Non-applicable *
	sive to metals:	Non-applicable *
	of combustion:	Non-applicable *
comp	sols-total percentage (by mass) of flammable ponents: er safety characteristics:	Non-applicable *
	ce tension at 20 °C:	Non-applicable *
	elevant due to the nature of the product, not providing informa	

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SECT	TON 9: PHYSICAL AND (	CHEMICAL PROPERTIE	ES (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:						
No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet. <b>10.2 Chemical stability:</b>							
	Chemically stable under the	e indicated conditions of s	torage, handling and use.				
10.3	Possibility of hazardous	reactions:					
	Under the specified condition	ons, hazardous reactions	that lead to excessive temp	eratures or pressure are	not expected.		
10.4	Conditions to avoid:			·	•		
	Applicable for handling and	storage at room tempera	ature:				
	Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity		
	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable		
	NOL applicable	10.5 Incompatible materials:					
10.5							
10.5		Water	Oxidising materials	Combustible materials	Others		

## 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:

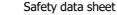
- A- Ingestion (acute effect):
  - Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
  - Corrosivity/Irritability: The consumption of a considerable dose can cause 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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**NZYtech** 

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SECT	ION 11: TOXICOLOGICAL INFORMATION (continued)				
	E- Sensitizing effects:				
	<ul> <li>Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.</li> <li>Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.</li> <li>F- Specific target organ toxicity (STOT) - single exposure:</li> <li>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.</li> </ul>				
	<ul> <li>G- Specific target organ toxicity (STOT)-repeated exposure:</li> <li>Specific target organ toxicity (STOT)-repeated exposure: Based on a it does not contain substances classified as hazardous for this effect.</li> <li>Skin: Based on available data, the classification criteria are not met, hazardous for this effect. For more information see section 3.</li> <li>H- Aspiration hazard:</li> </ul>	For more informati	on see section 3.		
	Based on available data, the classification criteria are not met, as it doe this effect. For more information see section 3. <b>Other information:</b>	es not contain subst	ances classified as haza	ardous for	
	Non-applicable				
	Specific toxicology information on the substances:				
	Identification		te toxicity	Genus	
	Imidazole CAS: 288-32-4	LD50 oral LD50 dermal	500 mg/kg (ATEi)		
	EC: 206-019-2	LC50 inhalation	>2000 mg/kg		
11.2	Tufamuatian an athan barra t		>5 mg/L		
	2 Information on other hazards:				
			>5 IIIg/L		
	Endocrine disrupting properties		>5 IIIg/L		
	<b>Endocrine disrupting properties</b> Endocrine-disrupting properties: The product does not meet the criteria.		>5 IIIg/L		
	Endocrine disrupting properties Endocrine-disrupting properties: The product does not meet the criteria. Other information		>5 IIIQ/L		
	<b>Endocrine disrupting properties</b> Endocrine-disrupting properties: The product does not meet the criteria.		>3 IIIg/L		
	Endocrine disrupting properties Endocrine-disrupting properties: The product does not meet the criteria. Other information Non-applicable		>3 IIIG/L		
	Endocrine disrupting properties Endocrine-disrupting properties: The product does not meet the criteria. Other information		>3 IIIG/L		
SECT	Endocrine disrupting properties Endocrine-disrupting properties: The product does not meet the criteria. Other information Non-applicable				
SECT: The ex Based For mo	Endocrine disrupting properties Endocrine-disrupting properties: The product does not meet the criteria. Other information Non-applicable ION 12: ECOLOGICAL INFORMATION experimental information related to the eco-toxicological properties of the pro- on available data, the classification criteria are not met, as it does not conta ore information see section 3. Toxicity:	oduct itself is not av	railable	his effect.	
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This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific NZYtech

legislation

## CZ0902 - Arabinanase 43A, Ruminococcus champanellensis

Date of compilation: 23/06/2020

Revised: 12/10/2023

Version: 2 (Replaced 1)

## 13.1 Waste treatment methods:

SECTION 13: DISPOSAL CONSIDERATIONS

Code	Description	Waste class (Regulation (EU) No 1357/2014)
	It is not possible to assign a specific code, as it depends on the intended use by the user	Dangerous

### Type of waste (Regulation (EU) No 1357/2014):

HP10 Toxic for reproduction

### Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See paragraph 6.2.

### **Regulations related to waste management:**

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

## SECTION 14: TRANSPORT INFORMATION

## Transport of dangerous goods by land:

With regard to ADR 2023 and RID 2023:

14.2	UN number or ID number: UN proper shipping name:	Non-applicable Non-applicable
14.3	Transport hazard class(es): Labels:	Non-applicable Non-applicable
14.4	Packing group:	Non-applicable
	Environmental hazards:	No
	Special precautions for user	
	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:	
With rega	rd to IMDG 40-20:	
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	Marine pollutant:	No
14.6	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
Transpo	rt of dangerous goods by air:	

Revised: 12/10/2023

Safety data sheet legislation

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

## CZ0902 - Arabinanase 43A, *Ruminococcus champanellensis*

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	
L			

## SECTION 15: REGULATORY INFORMATION

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

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

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

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

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

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

## Seveso III:

Non-applicable

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

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

Shall not be used in:

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

-tricks and jokes,

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

## Specific provisions in terms of protecting people or the environment:

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

### Other legislation:

The product could be affected by sectorial legislation

## 15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

## SECTION 16: OTHER INFORMATION \*\*

## Legislation related to safety data sheets:

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

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

\*\* Changes with regards to the previous version

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

# CZ0902 - Arabinanase 43A, Ruminococcus champanellensis

Date of compilation: 23/06/2020	Revised: 12/10/2023	Version: 2 (Replaced 1)
SECTION 16: OTHER INFORMA	TION ** (continued)	
COMMISSION REGULATION (F CLP Regulation (EC) No 1272/ · Hazard statements		ION 16):
Texts of the legislative phy H315: Causes skin irritation. H360D: May damage the unbo H319: Causes serious eye irri	orn child.	ction 2:
Texts of the legislative ph	ases mentioned in se	ction 3:
The phrases indicated do not individual components which		f; they are present merely for informative purposes and refer to the
CLP Regulation (EC) No 12 Acute Tox. 4: H302 - Harmful Eye Dam. 1: H318 - Causes s Repr. 1B: H360D - May dama Skin Corr. 1C: H314 - Causes	if swallowed. erious eye damage. ge the unborn child.	/e damage.
Advice related to training:		
5	rder to prevent industrial ata sheet, as well as the	l risks for staff using this product and to facilitate their comprehension and label on the product.
Principal bibliographical se		
http://echa.europa.eu http://eur-lex.europa.eu		
Abbreviations and acronyn	15:	
ADR: European agreement co IMDG: International maritime IATA: International Air Trans ICAO: International Civil Aviat COD: Chemical Oxygen Dema	dangerous goods code port Association ion Organisation	al carriage of dangerous goods by road
BOD5: 5day biochemical oxyg BCF: Bioconcentration factor LD50: Lethal Dose 50	en demand	
LC50: Lethal Concentration 5 EC50: Effective concentration LogPOW: Octanolwater partiti Koc: Partition coefficient of o	50 on coefficient	
UFI: unique formula identifier IARC: International Agency fo		

\*\* 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.