**NZYtech** 

## CZ0678 - Inulin fructotransferase 91A, Nonomuraea sp.

Date of	compilation: 23/06/202	20 Revised: 12/10/2023 Version: 2 (Replaced 1)
SECT	TION 1: IDENTIFICA	TION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1	Product identifier:	CZ0678 - Inulin fructotransferase 91A, <i>Nonomuraea sp.</i>
		Glycerol
	CAS:	56-81-5
	EC:	200-289-5
	Index:	Non-applicable
	REACH:	01-2119471987-18-XXXX
	Other means of ide	entification:
	Non-applicable	
1.2	Relevant identified	uses of the substance or mixture and uses advised against:
	Relevant uses: Labor	atory. For professional users only.
	Uses advised against	: All uses not specified in this section or in section 7.3
1.3	Details of the supp	lier of the safety data sheet:
	NZYTech Estrada do Paco do L 1649-038 Lisboa - Li info@nzytech.com www.nzytech.com	umiar Campus do Lumiar - Edif. E, r/c sboa - Portugal
1.4	Emergency telepho	one number: Contact Local Poison Information Center or Local Emergency Number
L		
SECT	TION 2: HAZARDS I	DENTIFICATION **
2.1	Classification of th	e substance or mixture:
		C) No. 1272/2009.

### 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 <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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e of (	compilation: 23/06/2020	Revised: 12/10/2023	Ver	sion: 2 (Replace	d 1)		
ECT	TON 7: HANDLING AND	STORAGE (continued)					
	to avoid the generation	le under normal conditions of electrostatic charges that s that should be avoided.	at can aff	ect flammable p			
	PREGNANT WOMEN SH necessary safety conditi equipment, especially or	OULD NOT BE EXPOSED To ions (emergency showers a n the hands and face (See s s, washing hands afterward	O THIS Pl and eyewa section 8). ds with su	RODUCT. Trans ash stations in c . Limit manual tr	close proximity), ansfers to small	using persor	nal protection
	It is recommended to ha	ave absorbent material avail	lable at cl	ose proximity to	the product (Se	e subsection	6.3)
.2	Conditions for safe stora						
-	A Technical measures for			-			
	Store in a cool, dry, well	5					
	B General conditions for s	adiation, static electricity an	d contact	with food For a	additional inform	ation coo cub	section 10 F
~		aulation, static electricity an				auon see sub	Section 10.5
.3	Specific end use(s):						
	Except for the instructions a product.	already specified it is not nee	cessary to	provide any sp	ecial recommend	dation regard	ing the uses of this
_	TON 8: EXPOSURE CONT Control parameters: Substances whose occupation			tored in the wor	kplace (Europea	n OEL, not co	untry-specific
5ECT 3.1	<b>Control parameters:</b> Substances whose occupation legislation): There are no applicable occu	onal exposure limits have to	o be moni				untry-specific
	<b>Control parameters:</b> Substances whose occupation legislation):	onal exposure limits have to	o be moni	stances containe			untry-specific
	<b>Control parameters:</b> Substances whose occupation legislation): There are no applicable occu	onal exposure limits have to upational exposure limits fo	o be moni	stances containe	ed in the product		ong exposure
_	Control parameters: Substances whose occupation legislation): There are no applicable occu DNEL (Workers):	onal exposure limits have to upational exposure limits fo	o be moni	stances containe	ed in the product	L	ong exposure
	Control parameters: Substances whose occupation legislation): There are no applicable occu DNEL (Workers): Identificat	onal exposure limits have to upational exposure limits fo	be monif	stances containe Short Systemic	ed in the product exposure Local	L Systemic	ong exposure
_	Control parameters: Substances whose occupation legislation): There are no applicable occupation DNEL (Workers): Identification Imidazole	onal exposure limits have to upational exposure limits fo tion	be monif or the subs	stances containe Short Systemic Non-applicable	ed in the product exposure Local Non-applicable	L Systemic Non-applicable	ong exposure Local Non-applicable
	Control parameters: Substances whose occupative legislation): There are no applicable occupative DNEL (Workers): Identification Imidazole CAS: 288-32-4	onal exposure limits have to upational exposure limits fo tion Oral Derm Inhala	be monif or the subs	Short Systemic Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	L Systemic Non-applicable 1,5 mg/kg	cong exposure Local Non-applicable Non-applicable
	Control parameters: Substances whose occupative legislation): There are no applicable occupative DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2	onal exposure limits have to upational exposure limits fo tion Oral Derm Inhala	be monif or the subs	Short Systemic Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	L Systemic Non-applicable 1,5 mg/kg	cong exposure Local Non-applicable Non-applicable
	Control parameters: Substances whose occupation legislation): There are no applicable occur DNEL (Workers): Identificat Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population	onal exposure limits have to upational exposure limits fo tion Oral Derm Inhala	be monif or the subs	Short Systemic Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	L Systemic Non-applicable 1,5 mg/kg	cong exposure Local Non-applicable Non-applicable
	Control parameters: Substances whose occupation legislation): There are no applicable occu DNEL (Workers): Identificat Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population Non-applicable	onal exposure limits have to upational exposure limits fo tion Oral Derm Inhala <b>n):</b>	be monif or the subs	Short Systemic Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	L Systemic Non-applicable 1,5 mg/kg	cong exposure Local Non-applicable Non-applicable
	Control parameters: Substances whose occupation legislation): There are no applicable occupation DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population Non-applicable PNEC:	onal exposure limits have to upational exposure limits fo tion Oral Derm Inhala <b>n):</b>	be monif or the subs	Short Systemic Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	L Systemic Non-applicable 1,5 mg/kg	cong exposure Local Non-applicable Non-applicable
	Control parameters: Substances whose occupation legislation): There are no applicable occur DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population Non-applicable PNEC: Identification Identification Non-applicable CAS: 288-32-4	onal exposure limits have to upational exposure limits fo tion Oral Derm Inhala n): tion	b be monit or the subs	Short Systemic Non-applicable Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable Fresh water Marine water	L Systemic Non-applicable 1,5 mg/kg 10,6 mg/m <sup>3</sup>	ong exposure       Local       Non-applicable       Non-applicable       Non-applicable       0,13 mg/L
_	Control parameters: Substances whose occupation legislation): There are no applicable occur DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population Non-applicable PNEC: Identification Identification Non-applicable	onal exposure limits have to upational exposure limits fo tion Oral Derm Inhala n): tion STP Soil Interr	be monif or the subs	Short Systemic Non-applicable Non-applicable Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable Non-applicable Fresh water Fresh water Sediment (Fresh	Systemic         Non-applicable         1,5 mg/kg         10,6 mg/m³	Image: ong exposure         Local         Non-applicable         Non-applicable         Non-applicable         Image: one of the second
.1	Control parameters: Substances whose occupation legislation): There are no applicable occup DNEL (Workers): Identificat Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population Non-applicable PNEC: Identificat Imidazole CAS: 288-32-4 EC: 206-019-2	onal exposure limits have to upational exposure limits fo tion Oral Derm Inhala n): tion	b be monit or the subs	Short Systemic Non-applicable Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable Fresh water Marine water	Systemic         Non-applicable         1,5 mg/kg         10,6 mg/m³	ong exposure       Local       Non-applicable       Non-applicable       Non-applicable       0,13 mg/L
_	Control parameters: Substances whose occupation legislation): There are no applicable occur DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population Non-applicable PNEC: Identification Identification Non-applicable CAS: 288-32-4	onal exposure limits have to upational exposure limits fo tion n): tion Soil Interr Soil Interr Oral	b be monif ir the subs	Stances container Short Systemic Non-applicable Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable Non-applicable Fresh water Fresh water Sediment (Fresh	Systemic         Non-applicable         1,5 mg/kg         10,6 mg/m³	Image: ong exposure         Local         Non-applicable         Non-applicable         Non-applicable         Image: one of the second

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LIION	8: EXPOSURE	CONTROLS/PERSON	AL PROTECTIO	ON (continued)		
	Pictogram	PPE	Labelling	CEN Standard		Remarks
	Mandatory respiratory tract protection	Filter mask for gases and vapours		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 protection	n for the hands				
	Pictogram	PPE	Labelling	CEN Standard		Remarks
	Mandatory hand protection	Chemical protective gloves (Material: PVC, Breakthrough time: > 480 min, Thickness: 0.7 mm)	n 🕻 🗲	EN ISO 21420:2020	Repl	lace the gloves at any sign of deterioration
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 is risk of splashing.
E	Body protection		·			
	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		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	Re	eplace boots at any sign of deterioration.
F	Additional emerge	ency measures				
	Emergency mea	asure	Standards	Emergency measure	ure	Standards
	Emergency sho	ISO 3864-1:2	NSI Z358-1 2011, ISO 3864-4:20	11 Eyewash station	าร	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
Env	vironmental exp	osure controls:				•
In a spil	accordance with th	ne community legislation product and its containe		on of the environment it is information see subsect		nmended to avoid environmental .D
	-	ive 2010/75/EU, this pro	duct has the foll	owing characteristics:		
	V.O.C. (Supply):		weight	owing characteristics:		
	V.O.C. (Supply): V.O.C. density at		j/m <sup>3</sup> (0 g/L)			
	v.o.c. uensity at	20 - C. $0 Kg$	y, (U y/L)			
	Average carbon r	umher: Non	-applicable			

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

## 9.1 Information on basic physical and chemical properties:

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

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SECTION 9: PHYSICAL AND C	HEMICAL PROPERTIES (	continued)					
For complete information se	e the product datasheet.						
Appearance:							
Physical state at 20 °C:		Liquid					
Appearance:		Not available					
Colour:		Colourless					
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:		1110,8 kg/m³					
Relative density at 20 °C:		1,111					
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-octano		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:							
Median equivalent diameter:		Non-applicable					
9.2 Other information:							
Information with regard							
Explosive properties:		Non-applicable *					
Oxidising properties:		Non-applicable *					
Corrosive to metals:		Non-applicable *					
Heat of combustion:		Non-applicable *					
Aerosols-total percentage (b components: Other safety characteristi		Non-applicable *					
Surface tension at 20 °C:		Non-applicable *					
*Not relevant due to the nature of							

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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 info	prmation property of its hazards.		
SECT	ION 10: STABILITY AN	D 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 th	e indicated conditions of st	torage, handling and use.		
10.3	Possibility of hazardous	reactions:			
	Under the specified condit	ions, hazardous reactions t	hat lead to excessive temp	eratures or pressure are	not expected.
10.4	Conditions to avoid:				
	Applicable for handling an	d storage at room tempera	ture:		
	Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
		Not applicable	Not applicable	Not applicable	Not applicable
	Not applicable	Not applicable			
10.5	Not applicable Incompatible materials				
10.5			Oxidising materials	Combustible materials	Others

complex mixtures of chemical substances can be released: carbon dioxide (CO<sub>2</sub>), carbon monoxide and other organic compounds.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:

The experimental information related to the toxicological properties of the product itself is not available

### Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

- A- Ingestion (acute effect):
  - Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
  - Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
- B- Inhalation (acute effect):
  - Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for inhalation. For more information see section 3.
  - Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.
- C- Contact with the skin and the eyes (acute effect):
  - Contact with the skin: Produces skin inflammation.
  - Contact with the eyes: Produces eye damage after contact.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
  - Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.
  - IARC: Non-applicable
  - Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
  - Reproductive toxicity: May damage the unborn child.

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SECT	ION 11: TOXICOLOGICAL	INFORMATION (continued	d)			
	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:         <ul> <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> </li> <li>G- Specific target organ toxicity (STOT)-repeated exposure:</li> </ul>					
	<ul> <li>G- Specific target organ toxicity (STOT)-repeated exposure:</li> <li>Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.</li> <li>Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the are not met, as it does not contain substances classified as hazardous for the are not met, as it does not contain substances classified as hazardous for the are not met, as it does not contain substances classified as hazardous for the are not met, as it does not contain substances classified as hazardous for the are not met, as it does not contain substances classified as hazardous for the are not met, as it does not contain substances classified as hazardous for the are not met, as it does not contain substances classified as hazardous for the are not met, as it does not contain substances classified as hazardous for the are not met, as it does not contain substances classified as hazardous for the are not met, as it does not contain substances classified as hazardous for the are not met, as it does not contain substances classified as hazardous for the are not met, as it does not contain substances classified as hazardous for the are not met, as it does not contain substances classified as hazardous for the are not met, as it does not contain substances classified as hazardous for the are not met, as it does not contain substances classified as hazardous for the are not met, as it does not contain substances classified as hazardous for the are not met, as it does not contain substances classified as hazardous for the are not met, as it does not contain substances classified as hazardous for the are not met, as it does not contain substances classified as hazardous for the are not met, as it does not contain substances classified as hazardous for the are not</li></ul>					
	Based on available data, t this effect. For more info <b>Other information:</b>	the classification criteria are no rmation see section 3.	ot met, as it doe	s not contain subs	stances classified as haz	ardous for
	Non-applicable					
	Specific toxicology inform	ation on the substances:				
		Identification		Aci	ute toxicity	Genus
	Imidazole			LD50 oral	500 mg/kg (ATEi)	
	CAS: 288-32-4 EC: 206-019-2			LD50 dermal	>2000 mg/kg	
				LC50 inhalation	>5 mg/l	
11.2	Information on other haz	ards:		LC50 inhalation	>5 mg/L	
11.2	Information on other haz			LC50 inhalation	>5 mg/L	
11.2	Information on other haz Endocrine disrupting prop	erties	t the criteria	LC50 inhalation	>5 mg/L	
11.2	Information on other haz Endocrine disrupting prop Endocrine-disrupting properti		t the criteria.	LC50 inhalation	>5 mg/L	
11.2	Information on other haz Endocrine disrupting prop Endocrine-disrupting properti Other information	erties	t the criteria.	LC50 inhalation	>5 mg/L	
11.2	Information on other haz Endocrine disrupting prop Endocrine-disrupting properti	erties	t the criteria.	LC50 inhalation	>5 mg/L	
	Information on other haz Endocrine disrupting prop Endocrine-disrupting properti Other information Non-applicable	es: The product does not meet	t the criteria.	LC50 inhalation	>5 mg/L	
SECT	Information on other haz Endocrine disrupting prop Endocrine-disrupting properti Other information Non-applicable ION 12: ECOLOGICAL INF	erties es: The product does not meet FORMATION				
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Revised: 12/10/2023



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

legislation

## CZ0678 - Inulin fructotransferase 91A, Nonomuraea sp.

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:

14.6Special precautions for user Special regulations: Tunnel restriction code: Physico-Chemical properties: Limited quantities:Non-applicable see section 914.7Maritime transport in bulk according to IMO instruments:Non-applicable14.7Maritime transport in bulk according to IMO instruments:Non-applicable14.1UN number or ID number: Labels:Non-applicable14.1UN number or ID number: Labels:Non-applicable14.3Transport hazard class(es): Labels:Non-applicable14.4Packing group: Special regulations:Non-applicable14.5Marine pollutant: Special regulations:No14.6Special precautions for user Special regulations:Non-applicable14.7Marine pollutant: Non-applicableNon-applicable14.7Marine pollutant: Non-applicableNon-applicable14.7Marine pollutant: Non-applicableNon-applicable14.7Marine pollutant: Non-applicableNon-applicable14.7Marine pollutant: Non-applicableNon-applicable14.7Marine pollutant: Non-applicableNon-applicable14.7Marine pollutant: Non-applicableNon-applicable14.7Marine pollutant: Non-applicableNon-applicable14.7Marine transport in bulk according to IMO instruments:Non-applicable14.7Maritime transport in bulk according to IMO instruments:Non-applicable14.7Maritime transport in bulk according to IMO instrumen	14.2 14.3 14.4	UN number or ID number: UN proper shipping name: Transport hazard class(es): Labels: Packing group: Environmental hazards:	Non-applicable Non-applicable Non-applicable Non-applicable Non-applicable No
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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

## CZ0678 - Inulin fructotransferase 91A, Nonomuraea sp.

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:

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

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## CZ0678 - Inulin fructotransferase 91A, Nonomuraea sp.

Date of compilation: 23/06/2020	Revised: 12/10/2023	Version: 2 (Replaced 1)
SECTION 16: OTHER INFORM	ATION ** (continued)	
individual components white CLP Regulation (EC) No	2/2008 (SECTION 2, SECTI hrases mentioned in sec born child. rritation. hrases mentioned in sec of refer to the product itself th appear in section 3 1272/2008:	tion 2:
Acute Tox. 4: H302 - Harmi Eye Dam. 1: H318 - Causes Repr. 1B: H360D - May dam Skin Corr. 1C: H314 - Cause <b>Advice related to trainin</b>	serious eye damage. lage the unborn child. es severe skin burns and ey <b>g:</b>	-
interpretation of this safety	data sheet, as well as the	risks for staff using this product and to facilitate their comprehension and label on the product.
Principal bibliographical http://echa.europa.eu http://eur-lex.europa.eu	sources:	
Abbreviations and acrom ADR: European agreement IMDG: International maritin IATA: International Air Tran ICAO: International Civil Avi COD: Chemical Oxygen Der BOD5: 5day biochemical oxy BCF: Bioconcentration facto LD50: Lethal Dose 50 LC50: Lethal Concentration EC50: Effective concentration EC50: Effective concentration LogPOW: Octanolwater par Koc: Partition coefficient of UFI: unique formula identif IARC: International Agency	concerning the internationa ne dangerous goods code rsport Association ation Organisation mand /gen demand or 50 n 50 tition coefficient organic carbon ier	al carriage of dangerous goods by road

\*\* 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.