Safety data sheet legislation

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

CZ0509 - Levanase 32B, Bacillus subtilis

Date of	compilation: 23/06/20	020 Revised: 12/10/2023 Version: 2 (Replaced 1)
SECT	FION 1: IDENTIFIC	CATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1	Product identifie	er: CZ0509 - Levanase 32B, <i>Bacillus subtilis</i>
		Glycerol
	CAS:	56-81-5
	EC:	200-289-5
	Index:	Non-applicable
	REACH:	01-2119471987-18-XXXX
	Other means of i	dentification:
	Non-applicable	
1.2	Relevant identifie	ed uses of the substance or mixture and uses advised against:
	Relevant uses: Labo	oratory. For professional users only.
	Uses advised again	st: All uses not specified in this section or in section 7.3
1.3	Details of the sup	pplier of the safety data sheet:
	NZYTech Estrada do Paco do 1649-038 Lisboa - info@nzytech.com www.nzytech.com) Lumiar Campus do Lumiar - Edif. E, r/c Lisboa - Portugal
1.4	Emergency telep	hone number: Contact Local Poison Information Center or Local Emergency Number
SECT	TION 2: HAZARDS	GIDENTIFICATION **
2.1	Classification of t	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

Label elements: 2.2

CLP Regulation (EC) No 1272/2008:

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

Danger



Hazard statements:

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

Precautionary statements:

P201: Obtain special instructions before use.

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

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

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

Substances that contribute to the classification

Imidazole (CAS: 288-32-4)

Additional Labelling:

Restricted to professional users

2.3 **Other hazards:**

** Changes with regards to the previous version

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SECTION 2: HAZARDS IDENTIFICATION ** (continued)

Product does not meet PBT/vPvB criteria

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

** Changes with regards to the previous version

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Chemical description: Mixture of substances

Components:

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

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

⁽¹⁾ Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2020/878

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

3.2 Mixture:

Non-applicable

Acute toxicity estimate for the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or as determined in accordance with Annex I to that Regulation:

Identification	Acu	te toxicity	Genus
Imidazole	LD50 oral	500 mg/kg (ATEi)	
CAS: 288-32-4	LD50 dermal	Non-applicable	
EC: 206-019-2	LC50 inhalation	Non-applicable	

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

This product does not contain substances classified as hazardous for inhalation, however, in case of symptoms of intoxication remove the person affected from the exposure area and provide with fresh air. Seek medical attention if the symptoms get worse or persist.

By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By eye contact:

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

By ingestion/aspiration:

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

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

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

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

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Version: 2 (Replaced 1)

SECTION 4: FIRST AID MEASURES (continued)

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

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

Unsuitable extinguishing media:

Non-applicable

5.2 Special hazards arising from the substance or mixture:

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

5.3 Advice for firefighters:

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

Additional provisions:

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

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

For emergency responders:

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

6.2 Environmental precautions:

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

6.3 Methods and material for containment and cleaning up:

It is recommended:

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

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- General precautions for safe use

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

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



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SECI	FION 7: HANDLING AND STORAGE	(continued)				
	Product is non-flammable under no to avoid the generation of electros conditions and materials that shou C Technical recommendations on ger	static charges that can a uld be avoided.	ffect flammable p			
	PREGNANT WOMEN SHOULD NOT necessary safety conditions (emer equipment, especially on the hands drink during the process, washing D Technical recommendations to prev	gency showers and eyev s and face (See section 8 hands afterwards with s	vash stations in o). Limit manual ti	close proximity), ransfers to small	using personal	protection
	It is recommended to have absorbe	ent material available at o	close proximity to	the product (Se	e subsection 6.3	3)
7.2	Conditions for safe storage, includ					
	A Technical measures for storage	5 7 1 1				
	Store in a cool, dry, well-ventilated	location				
	B General conditions for storage					
		atic electricity and contac	t with food For	additional inform	ation coo cubco	ction 10 5
	Avoid sources of heat, radiation, st				ation see subse	
7.3	Specific end use(s):	· · · · · · · · · · · · · · · · · · ·			1. I	
	Except for the instructions already spe product.	cified it is not necessary	to provide any sp	ecial recommen	dation regarding	g the uses of this
	TION 8: EXPOSURE CONTROLS/PE Control parameters: Substances whose occupational expos legislation):	ure limits have to be mor	itored in the wor			ntry-specific
	Control parameters: Substances whose occupational expos legislation): There are no applicable occupational e	ure limits have to be mor	itored in the wor			ntry-specific
	Control parameters: Substances whose occupational expos legislation):	ure limits have to be mor	nitored in the wor			ntry-specific g exposure
	Control parameters: Substances whose occupational expos legislation): There are no applicable occupational e	ure limits have to be mor	nitored in the wor	ed in the product		
	Control parameters: Substances whose occupational expos legislation): There are no applicable occupational e DNEL (Workers):	ure limits have to be mor	hitored in the wor postances containe Short	ed in the product	Long	g exposure
	Control parameters: Substances whose occupational exposilegislation): There are no applicable occupational exposed DNEL (Workers): Identification Imidazole CAS: 288-32-4	ure limits have to be mor exposure limits for the sub Oral Dermal	hitored in the wor pstances containe Short Systemic Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	Systemic Non-applicable 1,5 mg/kg	g exposure Local Non-applicable Non-applicable
	Control parameters: Substances whose occupational expose legislation): There are no applicable occupational expose DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2	ure limits have to be mor exposure limits for the sub Oral	itored in the wor ostances containe Short Systemic Non-applicable	ed in the product exposure Local Non-applicable	Long Systemic Non-applicable	g exposure Local Non-applicable
	Control parameters: Substances whose occupational exposilegislation): There are no applicable occupational exposed DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population):	ure limits have to be mor exposure limits for the sub Oral Dermal	hitored in the wor pstances containe Short Systemic Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	Systemic Non-applicable 1,5 mg/kg	g exposure Local Non-applicable Non-applicable
	Control parameters: Substances whose occupational expose legislation): There are no applicable occupational expose DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2	ure limits have to be mor exposure limits for the sub Oral Dermal	hitored in the wor pstances containe Short Systemic Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	Systemic Non-applicable 1,5 mg/kg	g exposure Local Non-applicable Non-applicable
	Control parameters: Substances whose occupational exposilegislation): There are no applicable occupational exposed DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population):	ure limits have to be mor exposure limits for the sub Oral Dermal	hitored in the wor pstances containe Short Systemic Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	Systemic Non-applicable 1,5 mg/kg	g exposure Local Non-applicable Non-applicable
	Control parameters: Substances whose occupational exposilegislation): There are no applicable occupational exposed DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population): Non-applicable	ure limits have to be mor exposure limits for the sub Oral Dermal	hitored in the wor pstances containe Short Systemic Non-applicable Non-applicable	ed in the product exposure Local Non-applicable Non-applicable	Systemic Non-applicable 1,5 mg/kg	g exposure Local Non-applicable Non-applicable
	Control parameters: Substances whose occupational expos- legislation): There are no applicable occupational ex- DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population): Non-applicable PNEC: Identification Imidazole	ure limits have to be mor exposure limits for the sub Oral Dermal Inhalation	hitored in the wor ostances containe Short Non-applicable Non-applicable Non-applicable	ed in the product	Long Systemic Non-applicable 1,5 mg/kg 10,6 mg/m ³	g exposure Local Non-applicable Non-applicable Non-applicable
	Control parameters: Substances whose occupational expos- legislation): There are no applicable occupational ex- DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population): Non-applicable PNEC: Identification Imidazole CAS: 288-32-4	ure limits have to be mor exposure limits for the sub Oral Dermal Inhalation STP Soil	hitored in the wor ostances containe Short Non-applicable Non-applicable Non-applicable	ed in the product	Systemic Non-applicable 1,5 mg/kg 10,6 mg/m ³	g exposure Local Non-applicable Non-applicable Non-applicable
	Control parameters: Substances whose occupational expos- legislation): There are no applicable occupational ex- DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population): Non-applicable PNEC: Identification Imidazole	ure limits have to be mor exposure limits for the sub Oral Dermal Inhalation STP Soil Intermittent	hitored in the wor pstances contained Short Non-applicable Non-applicable Non-applicable Non-applicable	ed in the product	Systemic Non-applicable 1,5 mg/kg 10,6 mg/m ³	g exposure Local Non-applicable Non-applicable Non-applicable Non-applicable
3.1	Control parameters: Substances whose occupational expos- legislation): There are no applicable occupational ex- DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population): Non-applicable PNEC: Identification Imidazole CAS: 288-32-4	ure limits have to be mor exposure limits for the sub Oral Dermal Inhalation STP Soil	hitored in the wor ostances containe Short Non-applicable Non-applicable Non-applicable	ed in the product	Systemic Non-applicable 1,5 mg/kg 10,6 mg/m ³	g exposure Local Non-applicable Non-applicable Non-applicable
3.1	Control parameters: Substances whose occupational exposilegislation): There are no applicable occupational exposed DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population): Non-applicable PNEC: Identification Imidazole CAS: 288-32-4 EC: 206-019-2 Exposure controls:	ure limits have to be mor exposure limits for the sub Oral Dermal Inhalation STP Soil Intermittent Oral	hitored in the wor ostances contained Short Non-applicable Non-applicable Non-applicable 10 mg/L 0,043 mg/kg 1,3 mg/L Non-applicable	ed in the product	Systemic Non-applicable 1,5 mg/kg 10,6 mg/m ³	g exposure Local Non-applicable Non-applicable Non-applicable Non-applicable
5ECT 3.1	Control parameters: Substances whose occupational exposilegislation): There are no applicable occupational exposed DNEL (Workers): Identification Imidazole CAS: 288-32-4 EC: 206-019-2 DNEL (General population): Non-applicable PNEC: Identification Imidazole CAS: 288-32-4 EC: 206-019-2	Oral Oral Oral Dermal Inhalation STP Soil Intermittent Oral Oral Eth as personal protective commended to use basic gulation (EU) 2016/425. F of protection,) consult I information contained h	hitored in the wor ostances containe Short Non-applicable Non-applicable Non-applicable Non-applicable 10 mg/L 0,043 mg/kg 1,3 mg/L Non-applicable equipment Personal Protect For more information lucrein is a recomr	ed in the product exposure Local Non-applicable Non-applicable Non-applicable Non-applicable Fresh water Marine water Sediment (Fresh Sediment (Marin ive Equipment, Marin eaflet provided nendation which	Long Systemic Non-applicable 1,5 mg/kg 10,6 mg/m ³ 10,6 mg/m ³ 0 0 0 0 10,6 mg/m ³ 0 0 0 0 0 0 0 0 0 0 0 0 0	g exposure Local Non-applicable Non-applicable Non-applicable Non-applicable Non-applicable 0,13 mg/L 0,013 mg/L 0,034 mg/kg 0,034 mg/kg 0,034 mg/kg Donding < <ce pment (storage, turer. For more becification from</ce

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	6. EXPOSURE	CONTROLS/PERSONA	AL PROTECTIC	(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)		EN ISO 21420:2020	Rep	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	R	eplace boots at any sign of deterioration.
F	Additional emerge	ency measures				
	Emergency mea	asure S	tandards	Emergency meas	ure	Standards
	Emergency sho	ISO 3864-1:20	ISI Z358-1 011, ISO 3864-4:201	11 Eyewash station	าร	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
Env	vironmental exp	osure controls:				
In a	accordance with th	e community legislation		on of the environment it i information see subsect		nmended to avoid environmental .D
•	latile organic co					
Wit	h regard to Direct	ive 2010/75/EU, this pro	duct has the follo	owing characteristics:		
	V.O.C. (Supply):	0 %	weight			
	V.O.C. density at	20 ºC: 0 kg/	/m³ (0 g/L)			
	Average carbon r	number: Non-	applicable			
	Average molecula		applicable			

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

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

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SECT	TION 9: PHYSICAL AND CHEMICAL PROPERTIES	S (continued)
	For complete information see 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/m ³
	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-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:	
	Median equivalent diameter:	Non-applicable
9.2	Other information:	
	Information with regard to physical hazard clas	ises:
	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 components: Other safety characteristics:	Non-applicable *
	Surface tension at 20 °C:	Non-applicable *
	*Not relevant due to the nature of the product, not providing info	

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Date of c	ate of compilation: 23/06/2020 Revised: 12/10/2023 Version: 2 (Replaced 1)							
SECT	SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)							
	Refraction index: Non-applicable *							
	*Not relevant due to the nature of the product, not providing information property of its hazards.							
SECT	ION 10: STABILITY AND) REACTIVITY						
10.1	Reactivity:							
10.2	No hazardous reactions are Safety Data Sheet. Chemical stability:	e expected because the pro	oduct is stable under reco	mmended storage conditio	ons. See section 7 from			
	Chemically stable under the	e indicated conditions of st	torage, handling and use.					
10.3	Possibility of hazardous	reactions:						
	Under the specified condition	ons, hazardous reactions t	hat lead to excessive temp	peratures or pressure are i	not expected.			
10.4	Conditions to avoid:							
	Applicable for handling and storage at room temperature:							
	Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity			
	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable			
10.5	Incompatible materials:	1						
	Acids	Water	Oxidising materials	Combustible materials	Others			

10.6 Hazardous decomposition products:

Avoid strong acids

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

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:

Not applicable

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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	compilation: 23/06/2020		· · · · ·	eplaced 1)				
ECT	TON 11: TOXICOLOGICA	L INFORMATION (contir	nued)					
	E- Sensitizing effects:							
	hazardous with sensitis - Skin: Based on availa hazardous for this effec	n available data, the classific ing effects. For more inform able data, the classification c t. For more information see kicity (STOT) - single exposu	ation see section 3 riteria are not met, e section 3.	3.				
	this effect. For more inf	, the classification criteria ar formation see section 3. kicity (STOT)-repeated expos	,	es not contain sub	stances classified as h	azardous for		
	it does not contain subs - Skin: Based on availa	toxicity (STOT)-repeated ex stances classified as hazardo able data, the classification c t. For more information see	ous for this effect. riteria are not met,	For more informa	tion see section 3.			
	Based on available data this effect. For more inf Other information:	, the classification criteria ar ormation see section 3.	e not met, as it doe	es not contain sub	stances classified as h	azardous for		
	Non-applicable							
	Specific toxicology inform	mation on the substances						
		Identification		Ad	cute toxicity	Genus		
	Imidazole			LD50 oral	500 mg/kg (ATEi)			
	CAS: 288-32-4			LD50 dermal	>2000 mg/kg			
	EC: 206-019-2							
1.2	Information on other ha			LC50 inhalation	>5 mg/L			
.1.2	Information on other ha Endocrine disrupting pro Endocrine-disrupting proper		neet the criteria.	LC50 inhalation	>5 mg/L			
.1.2	Information on other ha Endocrine disrupting pro	perties	neet the criteria.	LC50 inhalation	>5 mg/L			
.1.2	Information on other ha Endocrine disrupting pro Endocrine-disrupting proper	perties	neet the criteria.	LC50 inhalation	>5 mg/L			
	Information on other ha Endocrine disrupting proper Endocrine-disrupting proper Other information Non-applicable	perties ties: The product does not n	neet the criteria.	LC50 inhalation	>5 mg/L			
	Information on other ha Endocrine disrupting pro Endocrine-disrupting proper Other information	perties ties: The product does not n	neet the criteria.	LC50 inhalation	>5 mg/L			
ECT	Information on other ha Endocrine disrupting proper Endocrine-disrupting proper Other information Non-applicable	perties ties: The product does not n IFORMATION						
ECT.	Information on other ha Endocrine disrupting proper Endocrine-disrupting proper Other information Non-applicable	perties ties: The product does not n IFORMATION ed to the eco-toxicological p	roperties of the pro	oduct itself is not a	available	or this effect.		
ECT The ex ased	Information on other has Endocrine disrupting provent Endocrine-disrupting proper Other information Non-applicable TON 12: ECOLOGICAL IN Experimental information related on available data, the classific ore information see section	perties ties: The product does not n IFORMATION ed to the eco-toxicological p fication criteria are not met,	roperties of the pro	oduct itself is not a	available	or this effect.		
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Version: 2 (Replaced 1)

Revised: 12/10/2023



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legislation

CZ0509 - Levanase 32B, Bacillus subtilis

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 14.3 14.4 14.5	UN number or ID number: UN proper shipping name: Transport hazard class(es): Labels: Packing group: Environmental hazards: Special precautions for user Special regulations: Tunnel restriction code:	Non-applicable Non-applicable Non-applicable Non-applicable No Non-applicable Non-applicable
	Physico-Chemical properties:	see section 9
	Limited quantities:	Non-applicable
14.7	Maritime transport in bulk according to IMO instruments:	Non-applicable
Transpo	rt of dangerous goods by sea:	
With rega	ard to IMDG 40-20:	
	UN number or ID number:	Non-applicable
	UN proper shipping name: Transport hazard class(es):	Non-applicable Non-applicable
14.4	Labels: Packing group:	Non-applicable Non-applicable
	Marine pollutant:	Non-applicable
14.6	-	
	Special regulations:	Non-applicable
	EmS Codes:	see section 9
	Physico-Chemical properties: Limited quantities:	Non-applicable
	Segregation group:	Non-applicable
14.7		Non-applicable
1-11/	according to IMO instruments:	
Transpo	rt of dangerous goods by air:	

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: 23/06/2020 Revised: 12,	/10/2023	Version: 2 (Replaced 1)
TRANSPORT INFORMATION ((continued)	
ard to IATA/ICAO 2023:		
UN number or ID number:	Non-applicable	
UN proper shipping name:	Non-applicable	
Transport hazard class(es):	Non-applicable	
Labels:	Non-applicable	
Packing group:	Non-applicable	
Environmental hazards:	No	
Special precautions for user		
Physico-Chemical properties:	see section 9	
Maritime transport in bulk according to IMO instruments:	Non-applicable	
	TRANSPORT INFORMATION (gard to IATA/ICAO 2023: UN number or ID number: UN proper shipping name: Transport hazard class(es): Labels: Packing group: Environmental hazards: Special precautions for user Physico-Chemical properties: Maritime transport in bulk according to IMO	TRANSPORT INFORMATION (continued) gard to IATA/ICAO 2023: UN number or ID number: UN proper shipping name: Transport hazard class(es): Labels: Packing group: Environmental hazards: Special precautions for user Physico-Chemical properties: Maritime transport in bulk according to IMO

SECTION 15: REGULATORY INFORMATION

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

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

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

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

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

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

Seveso III:

Non-applicable

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

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

Shall not be used in:

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

—tricks and jokes,

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

Specific provisions in terms of protecting people or the environment:

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

Other legislation:

The product could be affected by sectorial legislation

15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

SECTION 16: OTHER INFORMATION **

Legislation related to safety data sheets:

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

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

** Changes with regards to the previous version

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CZ0509 - Levanase 32B, Bacillus subtilis

Date of compilation: 23/06/2020	Revised: 12/10/2023	Version: 2 (Replaced 1)
SECTION 16: OTHER INFORM	ATION ** (continued)	
COMMISSION REGULATION CLP Regulation (EC) No 127 · Hazard statements		ON 16):
Texts of the legislative p H315: Causes skin irritation H360D: May damage the ur H319: Causes serious eye i	born child.	tion 2:
Texts of the legislative p		tion 3:
The phrases indicated do no individual components which		; they are present merely for informative purposes and refer to the
CLP Regulation (EC) No Acute Tox. 4: H302 - Harm Eye Dam. 1: H318 - Causes Repr. 1B: H360D - May dan Skin Corr. 1C: H314 - Cause	ul if swallowed. serious eye damage. hage the unborn child.	e damage.
Advice related to trainin		
	order to prevent industrial	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		
Abbreviations and acron	/ms:	
ADR: European agreement IMDG: International maritin IATA: International Air Trai ICAO: International Civil Avi	ne dangerous goods code nsport Association	l carriage of dangerous goods by road
COD: Chemical Oxygen De BOD5: 5day biochemical ox BCF: Bioconcentration facto LD50: Lethal Dose 50	nand /gen demand	
LC50: Lethal Concentration EC50: Effective concentration LogPOW: Octanolwater par	n 50	
Koc: Partition coefficient of UFI: unique formula identif	organic carbon ier	
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.