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Product name: NZYGelpure

Catalogue reference(s): MB01101, 50 columns

MB01102, 4 x 50 columns

MB01104, 2 x 50 columns

Components	MB01101	MB01102	MB01104	Safety Information	Unique Formula Identifier (UFI)
NZYTech Spin columns	1 x 50 columns	4 x 50 columns	2 x 50 columns	Not Hazardous *	
Collecting Tubes	1 x 50 columns	4 x 50 columns	2 x 50 columns	Not Hazardous *	
Binding Buffer	2 x 30 mL	8 x 30 mL	4 x 30 mL	See specific SDS	JQ00-D09X-M00U-4V08
Wash Buffer	1 x 12 mL	4 x 12 mL	2 x 12 mL	Not Hazardous *	
Elution Buffer	1 x 15 mL	4 x 15 mL	2 x 15 mL	Not Hazardous *	

*The component mentioned above is not classified as hazardous according to CLP Regulation (EC) No 1272/2008. Consequently, does not require a Safety Data Sheet (SDS), according to Regulation (EC) No 1907/2006, emended by Regulation (EC) No 2020/878.

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	ION 1: IDENTIFICATION OF T	HE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1	Product identifier:	MB011 - Binding Buffer
	Other means of identification:	
	Non-applicable	
1.2	Relevant identified uses of the s	substance or mixture and uses advised against:
	Relevant uses: Laboratory. For profe	essional users only.
	Uses advised against: All uses not s	pecified in this section or in section 7.3
1.3	Details of the supplier of the sat	fety data sheet:
	NZYtech, Lda Estrada do Paco do Lumiar Campus 1649-038 Lisboa - Lisboa - Portugal Phone: +351 213643514 info@nzytech.com www.nzytech.com	
1.4	Emergency telephone number:	National Poison Center (Portugal) CIAV: +351 800 250 250; Outside Portugal: Call your regional Poisons Information Service or call local Life Saving Service.

Acute Tox. 4: Acute toxicity if swallowed, Category 4, H302 Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard, Category 3, H412 Eye Dam. 1: Serious eye damage, Category 1, H318 Skin Corr. 1C: Skin corrosion, Category 1C, H314

2.2 Label elements:

CLP Regulation (EC) No 1272/2008:

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

Danger

Hazard statements:

Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects. Skin Corr. 1C: H314 - Causes severe skin burns and eye damage.

Precautionary statements:

P264: Wash thoroughly after handling.

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

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a poison center/doctor.

Supplementary information:

EUH032: Contact with acids liberates very toxic gas.

EUH071: Corrosive to the respiratory tract.

Substances that contribute to the classification

Guanidinium thiocyanate

UFI: JQ00-D09X-M00U-4V08

** Changes with regards to the previous version

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SECTION 2: HAZARDS IDENTIFICATION ** (continued)

2.3 Other hazards:

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:

Non-applicable

3.2 Mixture:

Chemical description: Mixture of substances

Components:

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

	Identification		Chemical name/Classification	Concentration
CAS:		Guanidinium thiocya	nate ⁽¹⁾ Self-classified	
Index:	209-812-1 Non-applicable 01-2120735072-65- XXXX	Regulation 1272/2008	Acute Tox. 4: H302+H312+H332; Aquatic Chronic 3: H412; Eye Dam. 1: H318; Skin Corr. 1C: H314; EUH071 - Danger	50 - <75 %
		methanol ⁽²⁾	ATP CLP00	
Index: REACH:	200-659-6 603-001-00-X 01-2119433307-44- XXXX	Regulation 1272/2008	Acute Tox. 3: H301+H311+H331; Flam. Liq. 2: H225; STOT SE 1: H370 - Danger 🛛 🛞 🚷	<1 %

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

(2) Substance with a Union workplace exposure limit

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

Other information:

Id	dentification		Spec	ific concentration limit	
methanol CAS: 67-56-1 EC: 200-659-6		% (w/w) >=1 3<= % (w/w	10: STOT SE 1) <10: STOT SI	- H370 E 2 - H371	
	whatewas in David 2 of America V/T to Da	audation (EC	N . 1070/7	000	and the second states
	e substance in Part 3 of Annex VI to Re	gulation (EC	.) NO 1272/2	1008 or as determin	ed in accordar
Acute toxicity estimate for the vith Annex I to that Regulatio			, ·	ute toxicity	ed in accordar
	on:		Act		_
vith Annex I to that Regulatio	on:	LD50	Act	ute toxicity	_

** Changes with regards to the previous version

SECTION 4: FIRST AID MEASURES

4.1 **Description of first aid measures:**

Request medical assistance immediately, showing the SDS of this product.

By inhalation:

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

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.

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SECTION 4: FIRST AID MEAS	URES (continued)	
By eye contact:		
If the injured person uses	contact lenses, these should	15 minutes. Do not allow the person affected to rub or close their eyes. be removed unless they are stuck to the eyes, in which case this could ctor should be consulted as quickly as possible with the SDS of the
By ingestion/aspiration	:	
	, 5	S of this product. Do not induce vomiting, because its expulsion from the gestive tract, and also risk damage to the respiratory system through

inhalation. Rinse out the mouth and throat, as they may have been affected during ingestion. In the case of loss of consciousness do not administer anything orally unless supervised by a doctor. Keep the person affected at rest.

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:

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

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

Unsuitable extinguishing media:

IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

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. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Remove any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

For emergency responders:

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

6.2 Environmental precautions:

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

6.3 Methods and material for containment and cleaning up:

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	TION 6: ACCIDENTAL RELEASE MEASURES			,		
JLCI		(continueu)				
	It is recommended:					
	Absorb the spillage using sand or inert absorben			o not absorb in s	awdust or other	combustible
6.4	absorbents. For any concern related to disposal Reference to other sections:	consult section	13.			
0.4	See sections 8 and 13.					
	See seculits 8 and 15.					
SECT	TION 7: HANDLING AND STORAGE					
7.1	Precautions for safe handling:					
	A General precautions for safe use					
	Comply with the current legislation concerning			sks with regards	manually handli	ng weights.
	Maintain order, cleanliness and dispose of us	-	• •			
	B Technical recommendations for the prevention		•			
	Avoid the evaporation of the product as it co the presence of sources of ignition. Control s					
	the creation of electrostatic charges. Consult					w speeds to avoid
	C Technical recommendations on general occu	pational hygier	ne			
	Do not eat or drink during the process, wash	ning hands afte	rwards with suital	ble cleaning prod	lucts.	
	D Technical recommendations to prevent envir	onmental risks				
	Due to the danger of this product for the en	vironment it is	recommended to	use it within an a	area containing	contamination
	control barriers in case of spillage, as well as			ose proximity.	-	
7.2	Conditions for safe storage, including any	incompatibili	ties:			
	A Technical measures for storage					
	Store in a cool, dry, well-ventilated location					
	B General conditions for storage					
	Avoid sources of heat, radiation, static electr	icity and conta	ct with food. For a	additional inform	ation see subse	ction 10.5
7.3	Specific end use(s):					
	Except for the instructions already specified it is	not necessary	to provide any sp	ecial recommend	lation regarding	the uses of this
	product.					
SECT	TION 8: EXPOSURE CONTROLS/PERSONAL	. PROTECTIC	DN			
8.1	Control parameters:					
	Substances whose occupational exposure limits	have to be mo	nitored in the wor	kplace (Europear	n OEL, not coun	try-specific
	legislation):				(=)	
	Directive (EU) 2000/39, Directive 2004/37/EC,Dir (EU) 2019/1831:	rective (EU) 20	06/15, Directive (I	EU) 2009/161, D	irective (EU) 20	1//164, Directive
	Identification			Oc	ccupational exposur	re limits
	methanol			IOELV (8h)	200 ppm	260 mg/m ³
	CAS: 67-56-1 EC: 200-659-6			IOELV (STEL)		
	DNEL (Workers):					
			Short	exposure	Long	exposure
	Identification		Systemic	Local	Systemic	Local
	Guanidinium thiocyanate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	CAS: 593-84-0	Dermal	Non-applicable	Non-applicable	0,31 mg/kg	Non-applicable
	EC: 209-812-1	Inhalation	3,28 mg/m ³	Non-applicable	1,092 mg/m ³	Non-applicable

DNEL (General population):

Non-applicable

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20 mg/kg

130 mg/m³

Oral

Dermal

Inhalation

Non-applicable Non-applicable

130 mg/m³

Non-applicable

20 mg/kg

130 mg/m³

Non-applicable

Non-applicable

130 mg/m³

methanol

CAS: 67-56-1

EC: 200-659-6

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

		Short	exposure	Long	g exposure
Identification		Systemic	Local	Systemic	Local
Guanidinium thiocyanate	Oral	Non-applicable	Non-applicable	0,155 mg/kg	Non-applicable
CAS: 593-84-0	Dermal	Non-applicable	Non-applicable	0,155 mg/kg	Non-applicable
EC: 209-812-1	Inhalation	Non-applicable	Non-applicable	0,27 mg/m ³	Non-applicable
methanol	Oral	4 mg/kg	Non-applicable	4 mg/kg	Non-applicable
CAS: 67-56-1	Dermal	4 mg/kg	Non-applicable	4 mg/kg	Non-applicable
EC: 200-659-6	Inhalation	26 mg/m ³	26 mg/m ³	26 mg/m ³	26 mg/m ³

PNEC:

FNEC				
Identification				
Guanidinium thiocyanate	STP	20 mg/L	Fresh water	0,0424 mg/L
CAS: 593-84-0	Soil	0,00803 mg/kg	Marine water	0,00424 mg/L
EC: 209-812-1	Intermittent	0,424 mg/L	Sediment (Fresh water)	0,165 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,0165 mg/kg
methanol	STP	100 mg/L	Fresh water	20,8 mg/L
CAS: 67-56-1	Soil	100 mg/kg	Marine water	2,08 mg/L
EC: 200-659-6	Intermittent	1540 mg/L	Sediment (Fresh water)	77 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	7,7 mg/kg

8.2 **Exposure controls:**

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory respiratory tract protection	Filter mask for gases and vapours		EN 405:2002+A1:2010	Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment.

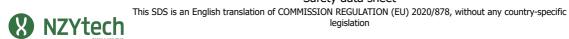
C.- Specific protection for the hands

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory hand protection	Chemical protective gloves (Material: Nitrile, Breakthrough time: > 480 min, Thickness: 0.11 mm)		EN ISO 21420:2020	Replace the gloves at any sign of deterioration.

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

D.- Eye and face protection

F	Pictogram	PPE	Labelling	CEN Standard	Remarks
	ndatory face protection	Face shield	CAT II	EN 166:2002 EN 167:2002 EN 168:2002 EN ISO 4007:2018	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.
E Body	protection				



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	N 8: EXPOSURE	CONTR	OLS/PERSON	AL PROTECT	ION (co	ontinued)		
	Pictogram		PPE	Labelling	(CEN Standard		Remarks
	Mandatory complete body protection	Dispos protectio	able clothing for n against chemical risks	CAT III	I E 1: EN EN	034:2005+A1:2009 EN 168:2002 N ISO 13982- 2004/A1:2010 ISO 6529:2013 ISO 6530:2005 EN 464:1994		r professional use only. Clean periodically ording to the manufacturer's instructions
_	Mandatory foot protection	protectio	ty footwear for n against chemical risk	CAT III		ISO 20345:2011 13832-1:2019	Re	place boots at any sign of deterioration.
F.	- Additional emerge	ency mea	isures					
	Emergency mea	asure	SI	tandards		Emergency measu	ıre	Standards
		nuor		SI Z358-1 11, ISO 3864-4:20	011		c.	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
	Emergency sho					Eyewash station	5	
	Average carbon n		1	kg/m³ (0,53 g	//L)			
L Ir	Average molecula	ar weight AND CH sic phys	: 32 g/ EMICAL PROF	mol PERTIES				
L Ir Fo	Average molecula N 9: PHYSICAL / Information on base or complete information	ar weight AND CH sic phys	: 32 g/ EMICAL PROF	mol PERTIES				
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L Ir Fo Al Pr Al Co Ou Ou	Average moleculation on base of complete information on base o	ar weight AND CH sic phys ation see	: 32 g/ EMICAL PROF	'mol PERTIES ical propertie asheet. Liqu Not Oran Not	s: id available	2		
L Ir Fo Ar Pr Ar Co Od Od Vo	Average moleculation of the second se	AND CH sic phys ation see	EMICAL PROF	rmol PERTIES ical propertie asheet. Liqu Not Oran Not Non	s: available available available -applicab	2		
L Ir Fc Al Pt Al Cc Ou Ou Ou Do Du Du Bc	Average molecula N 9: PHYSICAL / nformation on bas prearance: hysical state at 20 ° ppearance: olour: dour: dour: dour threshold: olatility: poiling point at atmos	AND CH sic phys ation see C:	EMICAL PROF	'mol PERTIES ical propertie asheet. Liqu Not Orar Not Non 100	s: available available -applicab	2		
L Ir Fo Pt Ap Co Oo Vo Bo Va	Average moleculation of the second se	AND CH sic phys ation see C: spheric p 0 °C:	EMICAL PROF	rmol PERTIES ical propertie asheet. Liqu Not Orar Not Non 100 2356	s: available available -applicab °C 6 Pa	e ble *		
L Ir Fc Al Pr Al Cc Ou Ou Ou Ou Ou Ou Ou Ou Ou Ou Ou Ou Ou	Average moleculation of the second se	AND CH sic phys ation see C: spheric p 0 °C: 0 °C:	EMICAL PROF	rmol PERTIES ical propertie asheet. Liqu Not Orar Not Non 100 2356 1240	s: available available -applicab °C 6 Pa 06,96 Pa	e ble * (12,41 kPa)		
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L Ir Fc Al Pt Al Co Ou Ou Ou Ou Ou Ou Ou Ou Ou Ou Ou Ou Ou	Average moleculation of the second se	AND CH sic phys ation see C: spheric p 0 °C: 0 °C: 0 °C:	EMICAL PROF	rmol PERTIES ical propertie asheet. Liqu Not Oran Not Non 100 2356 1246 Non	s: available available -applicab °C 6 Pa 06,96 Pa -applicab	e ble * (12,41 kPa) ble *		
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SEC	TION 9: PHYSICAL AND CHEMICAL PROPERTIE	S (continued)
	Kinematic viscosity at 40 °C:	Non-applicable *
	Concentration:	Non-applicable *
	pH:	4,9 - 5,1
	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:	464 °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	sses:
	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:	Non-applicable *
	Other safety characteristics:	
	Surface tension at 20 °C:	Non-applicable *
	Refraction index:	Non-applicable *
	*Not relevant due to the nature of the product, not providing info	prmation property of its hazards.

SECTION 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.

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Sh	hock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
	Not applicable	Not applicable	Precaution	Precaution	Not applicable

10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Produces very toxic gases	Not applicable	Precaution	Not applicable	Avoid alkalis or strong bases

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SECTION 10: STABILITY AND REACTIVITY (continued)

10.6 Hazardous decomposition products:

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.

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: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

- Corrosivity/Irritability: Corrosive product, if it is swallowed causes burns destroying the tissues. For more information about secondary effects from skin contact see section 2.

B- Inhalation (acute effect):

- Acute toxicity : Can be fatal after prolonged periods of exposure, as it releases toxic gases when it comes into contact with acids

- Corrosivity/Irritability: Corrosive to the respiratory tract
- C- Contact with the skin and the eyes (acute effect):
 - Contact with the skin: Above all, skin contact may occur as fabrics of all thicknesses can be destroyed, resulting in burns. For more information on the secondary effects see section 2.
 - Contact with the eyes: Produces serious 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: 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.
- E- Sensitizing effects:
 - 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.
 - 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.
- F- Specific target organ toxicity (STOT) single exposure:

Based on available data, the classification criteria are not met. However, it does contain substances which are classified as dangerous as a result of a single exposure. For more information see section 3.

- G- Specific target organ toxicity (STOT)-repeated exposure:
 - 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.
 - 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.
- H- Aspiration hazard:

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.

Other information:

Non-applicable

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Revised: 14/12/2023 Version: 3 (Replaced 2) SECTION 11: TOXICOLOGICAL INFORMATION ** (continued) Specific toxicology information on the substances: Identification Acute toxicity Genus Guanidinium thiocyanate LD50 oral 593 mg/kg Rat CAS: 593-84-0 LD50 dermal 1100 mg/kg (ATEi) EC: 209-812-1 LC50 inhalation 11 mg/L (ATEi) LD50 oral 100 mg/kg methanol LD50 dermal CAS: 67-56-1 300 mg/kg EC: 200-659-6 LC50 inhalation 3 mg/L (4 h) Acute Toxicity Estimate (ATE mix): ATE mix Ingredient(s) of unknown toxicity

Oral	1114,66 mg/kg (Calculation method)	0 %
Dermal	2067,67 mg/kg (Calculation method)	0 %
Inhalation	20,68 mg/L (4 h) (Calculation method)	0 %

11.2 Information on other hazards:

Endocrine disrupting properties

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

Other information

Non-applicable

** Changes with regards to the previous version

SECTION 12: ECOLOGICAL INFORMATION **

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

Harmful to aquatic life with long lasting effects.

12.1 Toxicity:

Acute toxicity:

Identification		Concentration	Species	Genus
Guanidinium thiocyanate	LC50	89,1 mg/L (96 h)	Poecilia reticulata	Fish
CAS: 593-84-0	EC50	42,4 mg/L (48 h)	Daphnia magna	Crustacean
EC: 209-812-1	EC50	130 mg/L (72 h)	Desmodesmus subspicatus	Algae
methanol	LC50	15400 mg/L (96 h)	Lepomis macrochirus	Fish
CAS: 67-56-1	EC50	12000 mg/L (96 h)	Nitrocra spinipes	Crustacean
EC: 200-659-6	EC50	530 mg/L (168 h)	Microcystis aeruginosa	Algae

Chronic toxicity:

Identification	Concentration		Species	Genus
methanol	NOEC	15800 mg/L	Oryzias latipes	Fish
CAS: 67-56-1 EC: 200-659-6	NOEC	122 mg/L	Daphnia magna	Crustacean

12.2 Persistence and degradability:

Substance-specific information:

Identification	Deg	radability	Biodegradability	
Guanidinium thiocyanate	BOD5	Non-applicable	Concentration	343 mg/L
CAS: 593-84-0	COD	Non-applicable	Period	28 days
EC: 209-812-1	BOD5/COD	Non-applicable	% Biodegradable	32 %
methanol	BOD5	Non-applicable	Concentration	100 mg/L
CAS: 67-56-1	COD	1,42 g O2/g	Period	14 days
EC: 200-659-6	BOD5/COD	Non-applicable	% Biodegradable	92 %

12.3 Bioaccumulative potential: Substance-specific information:

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	ION 12: ECO	LOGICAL INFORMATION ** (continued)			
		Identification			Bi	ioaccumulation potential
	methanol	thanol BCF				3
	CAS: 67-56-1				ow Log	-0.77
	EC: 200-659-6					Low
12.4 Mobility in soil:						
		Identification	Absorp	otion/desorption		Volatility
	methanol		Koc	Non-applicable	Henry	Non-applicable
	CAS: 67-56-1		Conclusion	Non-applicable	Dry soil	Non-applicable
25	EC: 200-659-6	BT and vPvB assessment:	Surface tension	2,355E-2 N/m (25 °C)	Moist soil	Non-applicable
2.5		not meet PBT/vPvB criteria				
~ ~						
.2.6		srupting properties:				
_		upting properties: The product doe	es not meet the o	criteria.		
.2.7	Other advers	se effects:				
	Not described					
.3.1		nent methods:				
13.1	Code	nent methods:	Description			Waste class (Regulation (EU) No
.3.1		nent methods: It is not possible to assign a specific code	•	the intended use by the use	er	Waste class (Regulation (EU) No 1357/2014) Dangerous
.3.1	Code		e, as it depends on t	the intended use by the use	er	1357/2014)
.3.1	Code Type of wast	It is not possible to assign a specific code	e, as it depends on t 014):		er	1357/2014)
13.1	Code Type of wast HP14 Ecotoxic	It is not possible to assign a specific code re (Regulation (EU) No 1357/2	e, as it depends on t 014): as, HP6 Acute To		er	1357/2014)
.3.1	Code Type of wast HP14 Ecotoxic Waste mana Consult the au 2 (Directive 20 the product, it Waste should in Regulations In accordance	It is not possible to assign a specific code re (Regulation (EU) No 1357/2 , HP12 Release of an acute toxic ga gement (disposal and evaluation thorized waste service manager or 108/98/EC). As under 15 01 (2014/ will be processed the same way as not be disposed of to drains. See p related to waste management: with Annex II of Regulation (EC) N	e, as it depends on t 014): as, HP6 Acute To on): In the assessment (955/EC) of the c s the actual prod baragraph 6.2. :	oxicity, HP8 Corrosive t and disposal operatio code and in case the co luct. Otherwise, it will	ons in accor ontainer has be processe	1357/2014) Dangerous dance with Annex 1 and Anne s been in direct contact with ed as non-dangerous residue.
	Code Type of wast HP14 Ecotoxic Waste mana Consult the au 2 (Directive 20 the product, it Waste should in Regulations In accordance management a	It is not possible to assign a specific code re (Regulation (EU) No 1357/2 , HP12 Release of an acute toxic ga gement (disposal and evaluation thorized waste service manager or 108/98/EC). As under 15 01 (2014/ will be processed the same way as not be disposed of to drains. See p related to waste management: with Annex II of Regulation (EC) N	e, as it depends on t 014): as, HP6 Acute To on): In the assessment 955/EC) of the c s the actual prod paragraph 6.2. : No 1907/2006 (R	oxicity, HP8 Corrosive t and disposal operatic code and in case the co luct. Otherwise, it will EACH) the community	ons in accord ontainer has be processe r or state pro	1357/2014) Dangerous dance with Annex 1 and Anne s been in direct contact with ed as non-dangerous residue.
	Code Type of wast HP14 Ecotoxic Waste mana Consult the au 2 (Directive 20 the product, it Waste should in Regulations In accordance management a Community leg	It is not possible to assign a specific code re (Regulation (EU) No 1357/2 , HP12 Release of an acute toxic ga gement (disposal and evaluation thorized waste service manager or 108/98/EC). As under 15 01 (2014/ will be processed the same way as not be disposed of to drains. See p related to waste management: with Annex II of Regulation (EC) N are stated	e, as it depends on t 014): as, HP6 Acute To on): In the assessment 955/EC) of the c s the actual prod paragraph 6.2. : No 1907/2006 (R	oxicity, HP8 Corrosive t and disposal operatic code and in case the co luct. Otherwise, it will EACH) the community	ons in accord ontainer has be processe r or state pro	1357/2014) Dangerous dance with Annex 1 and Anne s been in direct contact with ed as non-dangerous residue.

** Changes with regards to the previous version

Safety data sheet legislation

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Date of compilation: 12/08/20	020	Revised: 14/12/2023	Version: 3 (Replaced 2)
SECTION 14: TRANSPO	ORT I	INFORMATION ** (continued	
	14.2	UN number or ID number: UN proper shipping name: Transport hazard class(es): Labels:	UN1760 CORROSIVE LIQUID, N.O.S. (Guanidinium thiocyanate) 8 8
	14.5	Packing group: Environmental hazards: Special precautions for user	III No
		Special regulations: Tunnel restriction code: Physico-Chemical properties: Limited quantities:	274 E see section 9 5 L
	14.7	Maritime transport in bulk according to IMO instruments:	Non-applicable
Transport of dan	ngero	us goods by sea:	
With regard to IMI	DG 40	-20:	
		UN number or ID number:	UN1760
		UN proper shipping name: Transport hazard class(es): Labels:	CORROSIVE LIQUID, N.O.S. (Guanidinium thiocyanate) 8 8
	14.4	Packing group:	III
		Marine pollutant:	No
	14.6	Special precautions for user Special regulations:	274, 223
		EmS Codes:	F-A, S-B
		Physico-Chemical properties: Limited quantities:	see section 9 5 L
:	14.7	Segregation group: Maritime transport in bulk according to IMO	Non-applicable Non-applicable
Transport of dan	naero	instruments: us goods by air:	
With regard to IAT	-		
	14.1 14.2	UN number or ID number: UN proper shipping name: Transport hazard class(es):	UN1760 CORROSIVE LIQUID, N.O.S. (Guanidinium thiocyanate) 8
8		Labels: Packing group:	8 III
	14.5	Environmental hazards: Special precautions for user	No
		Physico-Chemical properties:	see section 9
	14.7	Maritime transport in bulk according to IMO instruments:	Non-applicable
** Changes with regards to th	e prev	vious version	

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

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e of compilation: 12/08/		(ام م				
ECTION 15: REGUL	ATORY INFORMATION (continu	Jed)				
Article 95, REGUL	ATION (EU) No 528/2012: Non-appl	icable				
REGULATION (EU) No 649/2012, in relation to the imp	port and export of hazardous chemical products: Non-applicable				
Seveso III:						
Non-applicable						
etc):	•					
and ashtrays, —tricks and jokes —games for one o	cles intended to produce light or colo ;, or more participants, or any article ir	our effects by means of different phases, for example in ornamental lamps ntended to be used as such, even with ornamental aspects.				
Specific provision	ons in terms of protecting people	e or the environment:				
	rder to establish the necessary risk p	this safety data sheet as a basis for conducting workplace-specific risk revention measures for the handling, use, storage and disposal of this				
The product could	be affected by sectorial legislation					
5.2 Chemical safety	/ assessment:					
The supplier has r	not carried out evaluation of chemica	al safety.				
Legislation relation The SDS shall be has been designed (COMMISSION RE Modifications re	d in accordance with ANNEX II-Guide EGULATION (EU) 2020/878). Elated to the previous Safety Dat					
Legislation relation The SDS shall be has been designed (COMMISSION RE Modifications re COMMISSION REC COMPOSITION/IN · New declared Guanidiniur · Removed subs	ted to safety data sheets: supplied in an official language of th d in accordance with ANNEX II-Guide EGULATION (EU) 2020/878). Elated to the previous Safety Dat GULATION (EU) 2020/878 NFORMATION ON INGREDIENTS (SEC substances n thiocyanate (593-84-0) stances	te country where the product is placed on the market. This safety data she e to the compilation of safety data sheets of Regulation (EC) No 1907/2006 ta Sheet which concerns the ways of managing risks.: CTION 3, SECTION 11, SECTION 12):				
Legislation relation The SDS shall be has been designed (COMMISSION REC COMMISSION REC COMPOSITION/IN · New declared Guanidiniur · Removed subs Dangerous Substances that c	ted to safety data sheets: supplied in an official language of th d in accordance with ANNEX II-Guide EGULATION (EU) 2020/878). elated to the previous Safety Dat GULATION (EU) 2020/878 NFORMATION ON INGREDIENTS (SE substances m thiocyanate (593-84-0) stances substance 103 contribute to the classification (SECT)	e to the compilation of safety data sheets of Regulation (EC) No 1907/2006 ta Sheet which concerns the ways of managing risks.: CTION 3, SECTION 11, SECTION 12):				
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Date of compilation: 12/08/2020	Revised: 14/12/2023	Version: 3 (Replaced 2)
SECTION 16: OTHER INFORM	ATION ** (continued)	
Acute Tox. 4: H302+H312+ Aquatic Chronic 3: H412 - I Eye Dam. 1: H318 - Causes Flam. Liq. 2: H225 - Highly	-H332 - Harmful if swallowed Harmful to aquatic life with less serious eye damage. flammable liquid and vapou es severe skin burns and eye	r.
Classification procedure	:	
Skin Corr. 1C: Calculation m Eye Dam. 1: Calculation me Aquatic Chronic 3: Calculati Acute Tox. 4: Calculation m	ethod on method	
Advice related to trainin	g:	
	order to prevent industrial data sheet, as well as the la	risks for staff using this product and to facilitate their comprehension and abel on the product.
Principal bibliographical	sources:	
http://echa.europa.eu http://eur-lex.europa.eu		
Abbreviations and acror	iyms:	
ADR: European agreement IMDG: International maritir IATA: International Air Tran ICAO: International Civil Av COD: Chemical Oxygen Der BOD5: 5day biochemical ox BCF: Bioconcentration facto LD50: Lethal Dose 50 LC50: Lethal Concentration EC50: Effective concentratio LogPOW: Octanolwater par Koc: Partition coefficient of UFI: unique formula identif IARC: International Agency	ne dangerous goods code sport Association iation Organisation mand ygen demand or 50 50 50 tition coefficient organic carbon ier	carriage of dangerous goods by road

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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.