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Product name: NZYGelpure

Catalogue reference(s): MB01101, 50 columns

MB01102, 200 columns

MB01103, 5 x 200 columns

MB01104, 2 x 50 columns

Components	MB01101	MB01102	MB01103	MB01104	Safety Information	Unique Formula Identifier (UFI)
NZYTech Spin columns	1 x 50 columns	4 x 50 columns	5 x 200 columns	2 x 50 columns	Not Hazardous *	
Collecting Tubes	1 x 50 columns	4 x 50 columns	5 x 200 columns	2 x 50 columns	Not Hazardous *	
Binding Buffer	2 x 30 mL	2 x 120 mL	10 x 120 mL	4 x 30 mL	See specific MSDS	JQ00-D09X- M00U-4V08
Wash Buffer	1 x 12 mL	2 x 25 mL	10 x 25 mL	2 x 12 mL	Not Hazardous *	
Elution Buffer	1 x 15 mL	1 x 60 mL	5 x 60 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.

Safety data sheet legislation

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ata of	compilation: 12/08/2020 Revised: 14/12/2023 Version: 3 (Replaced 2)
	TION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
SEC	
1.1	Product identifier: MB011 - Binding Buffer
	Other means of identification:
	Non-applicable
1.2	Relevant identified uses of the substance or mixture and uses advised against:
	Relevant uses: Laboratory. For professional users only.
	Uses advised against: All uses not specified in this section or in section 7.3
1.3	Details of the supplier of the safety data sheet:
	NZYtech, Lda Estrada do Paco do Lumiar Campus do Lumiar - Edif. E, r/c 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.
SECT	TION 2: HAZARDS IDENTIFICATION **
2.1	Classification of the substance or mixture:
	CLP Regulation (EC) No 1272/2008:
	Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.
2.2	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 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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legislation

MB011 - Binding Buffer

Date of compilation: 12/08/2020

Version: 3 (Replaced 2)

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.

Revised: 14/12/2023

** 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	
REACH:	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 %
	67-56-1	methanol ⁽²⁾	ATP CLP00	
Index:	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:

	Identification	Sp	ecific concentration limit	
methanol CAS: 67-56-1 EC: 200-659-6		% (w/w) >=10: STOT SE 3<= % (w/w) <10: STOT		
A	Contraction in Data 2 - Channel Marks Da		12000 11 1	
	for the substance in Part 3 of Annex VI to Re aulation:	egulation (EC) No 1272	2008 or as determined	I in accordance
with Annex I to that Re			Acute toxicity	Genus
	gulation:		·	
with Annex I to that Re	gulation:		Acute 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.

Safety data sheet legislation

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Date of compilation: 12/08/2020 Revised: 14/12/2023 Version: 3 (Replaced 2) SECTION 4: FIRST AID MEASURES (continued) 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

By ingestion/aspiration:

Request immediate medical assistance, showing the SDS of this product. Do not induce vomiting, because its expulsion from the stomach can be hazardous to the mucus of the main digestive 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.

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

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:

- CONTINUED ON NEXT PAGE -



product.

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Date of	compilation: 12/08/2020 Revised: 14/12/2023 Vers	ion: 3 (Replaced)	2)		
	TION 6: ACCIDENTAL RELEASE MEASURES (continued)		_)		
	It is recommended:				
6.4	Absorb the spillage using sand or inert absorbent and move it to absorbents. For any concern related to disposal consult section 1 Reference to other sections:		not absorb in sa	wdust or other co	mbustible
	See sections 8 and 13.				
SECT	TION 7: HANDLING AND STORAGE				
7.1	Precautions for safe handling:				
	A General precautions for safe use				
	Comply with the current legislation concerning the preventior Maintain order, cleanliness and dispose of using safe method B Technical recommendations for the prevention of fires and ex	s (section 6).	s with regards n	nanually handling	weights.
	Avoid the evaporation of the product as it contains flammable the presence of sources of ignition. Control sources of ignition the creation of electrostatic charges. Consult section 10 for co C Technical recommendations on general occupational hygiene	n (mobile phones, onditions and mat	sparks,) and	transfer at slow s	
	Do not eat or drink during the process, washing hands afterw	ards with suitable	e cleaning produ	ucts.	
	D Technical recommendations to prevent environmental risks				
7 2	Due to the danger of this product for the environment it is re control barriers in case of spillage, as well as having absorber	nt material in clos		rea containing cor	Itamination
7.2	Conditions for safe storage, including any incompatibilitie A Technical measures for storage	25:			
	Store in a cool, dry, well-ventilated location				
	B General conditions for storage				
	-	with food For ad	ditional informa	tion coo cubcoctio	n 10 F
7.3	Avoid sources of heat, radiation, static electricity and contact	with food. For au			10.5
7.5	Specific end use(s): Except for the instructions already specified it is not necessary to product.	provide any spec	cial recommenda	ation regarding the	e uses of this
SECT	TION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION				
8.1	Control parameters:				
	Substances whose occupational exposure limits have to be monit legislation):	ored in the workp	lace (European	OEL, not country-	specific
	Directive (EU) 2000/39, Directive 2004/37/EC,Directive (EU) 2006 (EU) 2019/1831:	6/15, Directive (El	J) 2009/161, Di	rective (EU) 2017/	164, Directive
	Identification			cupational exposure lin	
	methanol CAS: 67-56-1 EC: 200-659-6		IOELV (8h) IOELV (STEL)	200 ppm	260 mg/m ³
	DNEL (Workers):				
		Short exp	posure	Long exp	osure
	Identification	Systemic	Local	Systemic	Local

G	uanidinium thiocyanate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
c	AS: 593-84-0	Dermal	Non-applicable	Non-applicable	0,31 mg/kg	Non-applicable
E	C: 209-812-1	Inhalation	3,28 mg/m ³	Non-applicable	1,092 mg/m ³	Non-applicable
n	nethanol	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
С	AS: 67-56-1	Dermal	20 mg/kg	Non-applicable	20 mg/kg	Non-applicable
E	C: 200-659-6	Inhalation	130 mg/m ³	130 mg/m ³	130 mg/m ³	130 mg/m ³
D	NEL (General population):		-			<u>.</u>

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MB011 - Binding Buffer

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

	SONALINOILCIIC				
		Short	exposure	Long	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:

STP	20 mg/L	Fresh water	0,0424 mg/L
Soil	0,00803 mg/kg	Marine water	0,00424 mg/L
Intermittent	0,424 mg/L	Sediment (Fresh water)	0,165 mg/kg
Oral	Non-applicable	Sediment (Marine water)	0,0165 mg/kg
STP	100 mg/L	Fresh water	20,8 mg/L
Soil	100 mg/kg	Marine water	2,08 mg/L
Intermittent	1540 mg/L	Sediment (Fresh water)	77 mg/kg
Oral	Non-applicable	Sediment (Marine water)	7,7 mg/kg
	Soil Intermittent Oral STP Soil Intermittent	Soil 0,00803 mg/kg Intermittent 0,424 mg/L Oral Non-applicable STP 100 mg/L Soil 100 mg/kg Intermittent 1540 mg/L	Soil 0,00803 mg/kg Marine water Intermittent 0,424 mg/L Sediment (Fresh water) Oral Non-applicable Sediment (Marine water) STP 100 mg/L Fresh water Soil 100 mg/kg Marine water Intermittent 1540 mg/L Sediment (Fresh water)

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

	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	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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0110	N 8: EXPOSURE	CONTR	OLS/PERSON/	AL PROTECTI	ION (continued)		
	Pictogram		PPE	Labelling	CEN Standard		Remarks
	Mandatory complete body protection		able clothing for n 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		professional use only. Clean periodically rding to the manufacturer's instructions
	Mandatory foot protection		y footwear for n against chemical risk		EN ISO 20345:2011 EN 13832-1:2019	Re	place boots at any sign of deterioration.
F.	- Additional emerg	ency mea	sures				
	Emergency me	asure	St	andards	Emergency measu	ure	Standards
	Emergency sh	ower		SI Z358-1 11, ISO 3864-4:20	011 Eyewash station	IS	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
E	nvironmental exp	osure co	ontrols:				
	Average carbon r Average molecula	ar weight:	1 : 32 g/	mol			
L Ir	N 9: PHYSICAL	sic phys	ical and chemi	cal propertie	s:		
L Ir Fo	nformation on ba	sic phys	ical and chemi	cal propertie	S:		
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L Ir Fo Al Ph Al Co Ou Ou Ou Ou Ou Ou Ou Ou Ou Ou Ou Ou Ou	nformation on ba or complete informa ppearance: hysical state at 20 of ppearance: olour: dour: dour threshold: olatility: oiling point at atmo apour pressure at 2 apour pressure at 2 roduct descriptio	sic physi ation see PC: spheric pl 0 °C: 0 °C: 20 °C: n:	ical and chemi	ical propertie asheet. Liqu Not Orar Not Non 100 2350 1240 Non	id available nge available -applicable * °C 6 Pa 06,96 Pa (12,41 kPa) -applicable * 8,6 kg/m ³		
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MB011 - Binding Buffer

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SECT	TION 9: PHYSICAL AND CHEMICAL PROPERTI	ES (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 cla	isses:
	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 in	ormation 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:

Shock 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

^{**} Changes with regards to the previous version

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Date of compilation: 12/08/2020

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SECTION 11: TOXICOLOGICAL INFORMATION ** (continued)

Specific toxicology information on the substances:

Identification	A	cute 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)	
methanol	LD50 oral	100 mg/kg	
CAS: 67-56-1	LD50 dermal	300 mg/kg	
EC: 200-659-6	LC50 inhalation	3 mg/L (4 h)	Rat

Acute Toxicity Estimate (ATE mix):

	ATE mix		
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	Identification Degra		Biodegradab	ility
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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		Identifica	ation		В	ioaccumulatio	on potential
	methanol			B	CF	3	
	CAS: 67-56-1			Р	ow Log	-0.77	7
	EC: 200-659-6			P	otential	Low	
4	Mobility in s	oil:					
		Identification	Absor	otion/desorption		Vola	atility
	methanol		Кос	Non-applicable	Henry		Non-applicable
	CAS: 67-56-1		Conclusion	Non-applicable	Dry soil		Non-applicable
	EC: 200-659-6		Surface tension	2,355E-2 N/m (25 °C)	Moist soil		Non-applicable
5	Results of Pl	3T and vPvB assessment:					
	Product does	not meet PBT/vPvB criteria					
6	Endocrine di	srupting properties:					
	Endocrine-disr	upting properties: The product	t does not meet the	criteria.			
7	Other advers	se effects:					
	Not described						
CT.	ION 13: DISF	s to the previous version POSAL CONSIDERATIONS nent methods:					
CT.	ION 13: DISF	POSAL CONSIDERATIONS	Description			Waste clas	ss (Regulation (EU)
CT.	ION 13: DISF Waste treatr	POSAL CONSIDERATIONS	Description	the intended use by the us	ser	Waste clas	ss (Regulation (EU) 1357/2014) Dangerous
CT.	ION 13: DISF Waste treatr Code	POSAL CONSIDERATIONS	Description	the intended use by the us	ser	Waste clas	1357/2014)
CT.	ION 13: DISP Waste treatr Code Type of wast	POSAL CONSIDERATIONS ment methods: It is not possible to assign a specific	Description c code, as it depends on to 7/2014):			Waste clas	1357/2014)
CT.	ION 13: DISF Waste treatm Code Type of wast HP14 Ecotoxic	POSAL CONSIDERATIONS ment methods: It is not possible to assign a specific re (Regulation (EU) No 135	Description c code, as it depends on c7/2014): xic gas, HP6 Acute Te			Waste clas	1357/2014)
CT.	ION 13: DISF Waste treatr Code Type of wast HP14 Ecotoxic Waste mana Consult the au 2 (Directive 20 the product, it Waste should	POSAL CONSIDERATIONS ment methods: It is not possible to assign a specific re (Regulation (EU) No 135 , HP12 Release of an acute to	Description c code, as it depends on t code, as the actual procession of the code code paragraph 6.2.	oxicity, HP8 Corrosive t and disposal operati code and in case the o	ions in accor container ha	dance with s been in c	1357/2014) Dangerous
CT.	ION 13: DISF Waste treatr Code Type of wast HP14 Ecotoxic Waste mana Consult the au 2 (Directive 20 the product, it Waste should Regulations In accordance	POSAL CONSIDERATIONS ment methods: It is not possible to assign a specific te (Regulation (EU) No 135 , HP12 Release of an acute tox gement (disposal and evalue thorized waste service manage 08/98/EC). As under 15 01 (2 will be processed the same we not be disposed of to drains. S related to waste managem with Annex II of Regulation (E	Description c code, as it depends on t code, as it depends on t code, as it depends on t code, as the formation of the code code code code code code code code code code code code code code code code code code code code code code code code code code code code code code	oxicity, HP8 Corrosive t and disposal operati code and in case the o luct. Otherwise, it wil	ions in accor container ha l be processo	dance with s been in c ed as non-	1357/2014) Dangerous n Annex 1 and Ar direct contact wit dangerous residu
CT.	ION 13: DISF Waste treatr Code Type of wast HP14 Ecotoxic Waste mana Consult the au 2 (Directive 20 the product, it Waste should Regulations In accordance management	POSAL CONSIDERATIONS ment methods: It is not possible to assign a specific te (Regulation (EU) No 135 , HP12 Release of an acute tox gement (disposal and evalue thorized waste service manage 08/98/EC). As under 15 01 (2 will be processed the same we not be disposed of to drains. S related to waste managem with Annex II of Regulation (E	Description code, as it depends on t code, as the Acute To code, as the Acute T	bxicity, HP8 Corrosive t and disposal operati code and in case the o duct. Otherwise, it wil REACH) the communit	ions in accor container ha l be processo y or state pr	dance with s been in c ed as non-	1357/2014) Dangerous n Annex 1 and Ar direct contact wit dangerous residu
1	ION 13: DISF Waste treatr Code Type of wast HP14 Ecotoxic Waste mana Consult the au 2 (Directive 20 the product, it Waste should Regulations In accordance management Community lea	POSAL CONSIDERATIONS ment methods: It is not possible to assign a specific te (Regulation (EU) No 135 , HP12 Release of an acute tox gement (disposal and evalue thorized waste service manage 008/98/EC). As under 15 01 (2 will be processed the same we not be disposed of to drains. S related to waste managem with Annex II of Regulation (E are stated	Description code, as it depends on the code, as it depends on the code, as it depends on the code of t	bxicity, HP8 Corrosive t and disposal operati code and in case the o duct. Otherwise, it wil REACH) the communit	ions in accor container ha l be processo y or state pr	dance with s been in c ed as non-	1357/2014) Dangerous n Annex 1 and Ar direct contact wit dangerous residu

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Version: 3 (Replaced 2)

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Date of compilation: 12/08/202	0 Revised: 14/12/2023	Version: 3 (Replaced 2)
SECTION 14: TRANSPOR	RT INFORMATION ** (continued)
14	 4.1 UN number or ID number: 4.2 UN proper shipping name: 4.3 Transport hazard class(es): Labels: 	UN1760 CORROSIVE LIQUID, N.O.S. (Guanidinium thiocyanate) 8 8
14	4.4 Packing group:4.5 Environmental hazards:4.6 Special precautions for user	III No
	Special regulations: Tunnel restriction code: Physico-Chemical properties: Limited quantities:	274 E see section 9 5 L
14	4.7 Maritime transport in bulk according to IMO instruments:	Non-applicable
Transport of dang	erous goods by sea:	
With regard to IMDG	G 40-20:	
	4.1 UN number or ID number:	UN1760
	 4.2 UN proper shipping name: 4.3 Transport hazard class(es): Labels: 	CORROSIVE LIQUID, N.O.S. (Guanidinium thiocyanate) 8 8
	1.4 Packing group:	III
	1.5 Marine pollutant:	No
14	1.6 Special precautions for user	
	Special regulations:	274, 223
	EmS Codes:	F-A, S-B
	Physico-Chemical properties:	see section 9 5 L
	Limited quantities: Segregation group:	5 L Non-applicable
14	 4.7 Maritime transport in bulk according to IMO instruments: 	Non-applicable
Transport of dang	erous goods by air:	
With regard to IATA		
	4.1 UN number or ID number:	UN1760
	4.2 UN proper shipping name:	CORROSIVE LIQUID, N.O.S. (Guanidinium thiocyanate)
	1.3 Transport hazard class(es): Labels:	8 8
	1.4 Packing group:	III
	4.5 Environmental hazards:	No
14	1.6 Special precautions for user	
	Physico-Chemical properties:	see section 9
14	4.7 Maritime transport in bulk according to IMO instruments:	Non-applicable
** Changes with regards to the	previous 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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ECT	ION 15: REGULATORY INFORMATION (continued)				
	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): 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				
.5.2	Chemical safety assessment:				
	The supplier has not carried out evaluation of chemical safety.				
ECT	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.:				
ECT	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.: COMMISSION REGULATION (EU) 2020/878 COMPOSITION/INFORMATION ON INGREDIENTS (SECTION 3, SECTION 11, SECTION 12): · New declared substances Guanidinium thiocyanate (593-84-0)				
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ECT	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 sheets 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.: COMMISSION REGULATION (EU) 2020/878 COMPOSITION/INFORMATION ON INGREDIENTS (SECTION 3, SECTION 11, SECTION 12): New declared substances Guanidinium thiocyanate (593-84-0) Removed substances Guanidinium thiocyanate (593-84-0) New declared substances Guanidinium thiocyanate (593-84-0) Removed substances Guanidinium thiocyanate Removed substances Guanidinium thiocyanate Removed substances Guanidinium thiocyanate Removed substances Guanidinium thiocyanate Removed sub				
ECT	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.: COMMISSION REGULATION (EU) 2020/878 COMPOSITION/INFORMATION ON INGREDIENTS (SECTION 3, SECTION 11, SECTION 12): • New declared substances Guanidinium thiocyanate (593-84-0) • Removed substances Dangerous substances (593-84-0) • Rewed substances Dangerous substances (593-84-0) • Rewed substances Dangerous substances (593-84-0) • Rewed substances Dangerous substance 103 Substances Dangerous substance 103 CLP Regulation (EC) No 1272/2008 (SECTION 2, SECTION 16): • Pictograms • Hazard statements • Precautionary statements • Supplementary information TRANSPORT INFORMATION (SECTION 14): • UN number • Packing group Texts of the legislative phrases mentioned in section 2: H314: Causes severe skin burns and eye damage. H318: Causes sevious eye damage. H318: Cau				
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This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

MB011 - Binding Buffer

Date of compilation: 12/08/2020	Revised: 14/12/2023	Version: 3 (Replaced 2)
SECTION 16: OTHER INFORM	ATION ** (continued)	
	H332 - Harmful if swallowe larmful to aquatic life with l serious eye damage. flammable liquid and vapou s severe skin burns and eye	ır.
Classification procedure		
Skin Corr. 1C: Calculation m Eye Dam. 1: Calculation me Aquatic Chronic 3: Calculatio Acute Tox. 4: Calculation m	thod on method	
Advice related to training	g:	
Training is recommended in interpretation of this safety	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 acron	yms:	
ADR: European agreement of IMDG: International maritim IATA: International Air Tran ICAO: International Civil Avi COD: Chemical Oxygen Den BOD5: 5day biochemical ox BCF: Bioconcentration facto LD50: Lethal Dose 50 LC50: Lethal Concentration EC50: Effective concentration EC50: Effective concentration LogPOW: Octanolwater part Koc: Partition coefficient of UFI: unique formula identifi	e dangerous goods code sport Association ation Organisation hand ygen demand r 50 in 50 ition coefficient organic carbon	I carriage of dangerous goods by road
IARC: International Agency		

** 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.