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Product name: NZYMiniprep 96 well plate

Catalogue reference(s): MB20201, 2 plates

MB20202, 4 x 2 plates

Components	MB20201	MB20202	Safety Information	Unique Formula Identifier (UFI)
Buffer A1	1 x 60 mL	4 x 60 mL	Não Perigoso *	
Buffer A2	1 x 60 mL	4 x 60 mL	Ver SDS específica	MR10-F0KQ-900S-2Y01
Buffer A3	1 x 80 mL	4 x 80 mL	Ver SDS específica	QW10-F0YG-W00S-DN55
Buffer AY	1 x 120 mL	4 x 120 mL	Ver SDS específica	9220-G0C9-H00S-QAA9
Buffer A4	5 x 15 mL	20 x 15 mL	Não Perigoso *	
Buffer AE	1 x 60 mL	4 x 60 mL	Não Perigoso *	
RNase A	1 x 25 mg	4 x 25 mg	Ver SDS específica	
NZY Plasmid filter plate	2 units	4 x 2 units	Não Perigoso *	
NZY Plasmid binding plate	2 units	4 x 2 units	Não Perigoso *	
Elution plate V-bottom	2 units	4 x 2 units	Não Perigoso *	
Adhesive cover foil	2 units	4 x 2 units	Não Perigoso *	
96-deep-well block (1.2 mL)	4 units	4 x 4 units	Não Perigoso *	

*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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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier:

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Other means of identification:

Not relevant

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: Contact Local Poison Information Center or Local Emergency Number

SECTION 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.

Eye Dam. 1: Serious eye damage, Category 1, H318 Met. Corr. 1: Corrosive to metals, Category 1, H290 Skin Corr. 1: Skin corrosion, Category 1, H314

2.2 Label elements:

CLP Regulation (EC) No 1272/2008:

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

Danger

TE

Hazard statements:

Skin Corr. 1: H314 - Causes severe skin burns and eye damage.

Precautionary statements:

P264: Wash thoroughly after handling.

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

Substances that contribute to the classification

sodium hydroxide

UFI: MR10-F0KQ-900S-2Y01

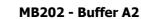
2.3 Other hazards:

Product does not meet PBT/vPvB criteria

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

** Changes with regards to the previous version

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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:

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	Identification		Chemical name/Classification		
CAS:		Sodium dodecyl sulp	hate (powder) ⁽¹⁾ Self-cl	assified	
EC: Index: REACH:	205-788-1 Non-applicable 01-2119489461-32- XXXX		Acute Tox. 4: H302+H332; Aquatic Chronic 3: H412; Eye Dam. 1: H318; Flam. Sol. 2: H228; Skin Irrit. 2: H315; STOT SE 3: H335 - Danger		1 - <2,5 %
CAS:		sodium hydroxide ⁽¹⁾	Self-cl	assified	
EC: Index: REACH:	215-185-5 011-002-00-6 01-2119457892-27- XXXX	Regulation 1272/2008	Eye Dam. 1: H318; Met. Corr. 1: H290; Skin Corr. 1A: H314 - Danger		<1 %

(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.

Other information:

Identification		Specific concentration limit		
CAS: 1310-73-2 EC: 215-185-5 Acute toxicity estimate for the substance in Part 3 of Annex VI to Reg		% (w/w) >=0,1: Met. Corr. 1 - H290 % (w/w) >=5: Skin Corr. 1A - H314 2 <= % (w/w) <5: Skin Corr. 1B - H314 0,5 <= % (w/w) <2: Skin Irrit. 2 - H315 % (w/w) >=2: Eye Dam. 1 - H318 0,5 <= % (w/w) <2: Eye Irrit. 2 - H319 egulation (EC) No 1272/2008 or as determined in accordance		
Acute toxicity estimate for the substance with Annex I to that Regulation:	,			d in accordance
	in Part 3 of Annex VI to Regulation	on (EC) No 1272,		d in accordance Genus
with Annex I to that Regulation:	in Part 3 of Annex VI to Regulation	on (EC) No 1272,	/2008 or as determine	
vith Annex I to that Regulation: Identificat	in Part 3 of Annex VI to Regulation	on (EC) No 1272,	/2008 or as determine	Genus

** 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:

This product is not classified as hazardous through inhalation. However, in case of intoxication symptoms it is recommended to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms 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:

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SECTION 4: FIRST AID MEASURES (continued)

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.

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:

Not relevant

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:

It is recommended to avoid environmental spillage of both the product and its container.

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

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SECTION 7: HANDLING AND STORAGE (continued)

7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used. KEEP ONLY IN ORIGINAL PACKAGING.

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

It is recommended to transfer at a slow speed to avoid the creation of electrostatic charges that could affect flammable products. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Store in a cool, dry, well-ventilated location

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):

There are no applicable occupational exposure limits for the substances contained in the product

DNEL (Workers):

		Short e	xposure	Long ex	xposure
Identification		Systemic	Local	Systemic	Local
Sodium dodecyl sulphate (powder)	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 151-21-3	Dermal	Not relevant	Not relevant	4060 mg/kg	Not relevant
EC: 205-788-1	Inhalation	Not relevant	Not relevant	285 mg/m³	Not relevant
sodium hydroxide	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 1310-73-2	Dermal	Not relevant	Not relevant	Not relevant	Not relevant
EC: 215-185-5	Inhalation	Not relevant	Not relevant	Not relevant	1 mg/m ³

DNEL (General population):

		Short e	exposure	Long e	xposure
Identification		Systemic	Local	Systemic	Local
Sodium dodecyl sulphate (powder)	Oral	Not relevant	Not relevant	24 mg/kg	Not relevant
CAS: 151-21-3	Dermal	Not relevant	Not relevant	2440 mg/kg	Not relevant
EC: 205-788-1	Inhalation	Not relevant	Not relevant	85 mg/m ³	Not relevant
sodium hydroxide	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 1310-73-2	Dermal	Not relevant	Not relevant	Not relevant	Not relevant
EC: 215-185-5	Inhalation	Not relevant	Not relevant	Not relevant	1 mg/m ³



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification				
Sodium dodecyl sulphate (powder)	STP	1,35 mg/L	Fresh water	0,176 mg/L
CAS: 151-21-3	Soil	1,29 mg/kg	Marine water	0,018 mg/L
EC: 205-788-1	Intermittent	0,055 mg/L	Sediment (Fresh water)	6,97 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,697 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

The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.

C.- Specific protection for the hands

Pict	ogram	PPE	Labelling	CEN Standard	Remarks
Manda	itory hand	Chemical protective gloves (Material: Linear low-density polyethylene (LLDPE), Breakthrough time: > 480 min, Thickness: 0.062 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	Face shield		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

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory complete body protection	Disposable clothing for protection against chemical risks		EN 13034:2005+A1:2009 EN 168:2002 EN ISO 13982- 1:2004/A1:2010 EN ISO 6529:2013 EN ISO 6530:2005 EN 464:1994	For professional use only. Clean periodically according to the manufacturer's instructions.
Mandatory foot protection	Safety footwear for protection against chemical risk		EN ISO 20345:2011 EN 13832-1:2019	Replace boots at any sign of deterioration.

F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
^ +	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	● + →	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
Emergency shower		Eyewash stations	

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

Volatile organic compounds:

With regard to Directive 2010/75/EU, this product has the following characteristics:



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SECT	TION 8: EXPOSURE CONTROLS/PERSON	AL PROTECTION (continued)
	V.O.C. density at 20 °C:0 kgAverage carbon number:Not	weight /m ³ (0 g/L) relevant relevant
SECT	TION 9: PHYSICAL AND CHEMICAL PRO	PERTIES
9.1	Information on basic physical and chem For complete information see the product dat Appearance:	
	Physical state at 20 °C:	Liquid
	Appearance:	Not available
	Colour:	Colourless
	Odour:	Odourless
	Odour threshold:	Not relevant *
	Volatility:	
	Boiling point at atmospheric pressure:	100 °C
	Vapour pressure at 20 °C:	2350 Pa
	Vapour pressure at 50 °C:	12381,01 Pa (12,38 kPa)
	Evaporation rate at 20 °C:	Not relevant *
	Product description:	
	Density at 20 °C:	1036,9 kg/m ³
	Relative density at 20 °C:	1,037
	Dynamic viscosity at 20 °C:	Not relevant *
	Kinematic viscosity at 20 °C:	Not relevant *
	Kinematic viscosity at 40 °C:	Not relevant *
	Concentration:	Not relevant *
	pH:	12 - 13
	Vapour density at 20 °C:	Not relevant *
	Partition coefficient n-octanol/water 20 °C:	Not relevant *
	Solubility in water at 20 °C:	Not relevant *
	Solubility properties:	Not relevant *
	Decomposition temperature:	Not relevant *
	Melting point/freezing point:	Not relevant *
	Flammability:	
	Flash Point:	Non Flammable (>60 °C)
	Flammability (solid, gas):	Not relevant *
	Autoignition temperature:	Not relevant *
	Lower flammability limit:	Not relevant *
	Upper flammability limit:	Not relevant *
	Particle characteristics:	
	Median equivalent diameter:	Non-applicable
9.2	Other information:	
	Information with regard to physical haz	ard classes:
	*Not relevant due to the nature of the product, not pro	oviding information property of its hazards.



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SECTION 9: PHYSICAL AND CHEMICAL PROPERT	IES (continued)
Explosive properties:	Not relevant *
Oxidising properties:	Not relevant *
Corrosive to metals:	H290 May be corrosive to metals.
Heat of combustion:	Not relevant *
Aerosols-total percentage (by mass) of flammable components: Other safety characteristics:	Not relevant *
Surface tension at 20 °C:	Not relevant *
Refraction index:	Not relevant *
*Not relevant, due to the nature of the product, not providing	information property of its bazarde

*Not relevant due to the nature of the product, not providing information 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
Precaution	Not applicable	Precaution	Precaution	Not applicable

10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Precaution	Not applicable	Not applicable

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: 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: 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 : Based on available data, the classification criteria are not met. However, it contains substances classified
 - as hazardous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Prolonged inhalation of the product is corrosive to mucous membranes and the upper respiratory tract

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TION 11: TOXICOLOGIC	AL INFORMATION ** (cont	inued)		
C- Contact with the skin a	nd the eyes (acute effect):			
For more information of - Contact with the eye	n: Above all, skin contact may o n the secondary effects see sect s: Produces serious eye damag nicity, mutagenicity and toxicity	e after contact.	can be destroyed, resu	lting in burn
	ed on available data, the classifi fects mentioned. For more infor	cation criteria are not met, as it mation see section 3.	does not contain substa	ances classif
 Mutagenicity: Based hazardous for this effect Reproductive toxicity 	t. For more information see sec	classification criteria are not met,		
E- Sensitizing effects:	for this cheet. For more more more	ation see section 3.		
hazardous with sensitis - Skin: Based on avail hazardous for this effec	ing effects. For more informatio	eria are not met, as it does not c tion 3.		
inhalation. For more inf		ot met. However, it contains sul e:	ostances classified as ha	azardous for
it does not contain subs - Skin: Based on avail	stances classified as hazardous	sure: Based on available data, th for this effect. For more informater are not met, as it does not co tion 3.	ion see section 3.	
•		ot met, as it does not contain su	bstances classified as h	azardous for
Other information:				
Not relevant				
Specific toxicology info	mation on the substances:			
	Identification	Å	Acute toxicity	Genus
Sodium dodecyl sulphate (powd	er)	LD50 oral	1200 mg/kg (ATEi)	Rat
CAS: 151-21-3		LD50 dermal	>2000 mg/kg	
EC: 205-788-1		LC50 inhalation	11 mg/L (ATEi)	
sodium hydroxide		LD50 oral	>2000 mg/kg	
CAS: 1310-73-2		LD50 dermal	>2000 mg/kg	
EC: 215-185-5		LC50 inhalation	>5 mg/L	
Acute Toxicity Estimate	(ATE mix):			-
	ATE mix		Ingredient(s) of unknow	un tovicity

ATE mix		Ingredient(s) of unknown toxicity
Oral 120000 mg/kg (Calculation method) (0 %
Dermal >2000 mg/kg (Calculation method)		Non-applicable
		0 %

11.2 Information on other hazards:

Endocrine disrupting properties

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

Other information

Not relevant

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SECTION 12: ECOLOGICAL INFORMATION **

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

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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.

12.1 Toxicity:

Acute toxicity:

Identification	Concentration		Species	Genus
Sodium dodecyl sulphate (powder)	LC50	>10 - 100 mg/L (96 h)		Fish
CAS: 151-21-3	EC50	>10 - 100 mg/L (48 h)		Crustacean
EC: 205-788-1	EC50	>10 - 100 mg/L (72 h)		Algae
sodium hydroxide	LC50	189 mg/L (48 h)	Leuciscus idus	Fish
CAS: 1310-73-2	EC50	33 mg/L	Crangon crangon	Crustacean
EC: 215-185-5	EC50	Not relevant		

12.2 Persistence and degradability:

Not available

12.3 Bioaccumulative potential:

Not available

12.4 Mobility in soil:

Not available

12.5 Results of PBT and vPvB assessment:

Product does not meet PBT/vPvB criteria

12.6 Endocrine disrupting properties:

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

12.7 Other adverse effects:

Not described

** Changes with regards to the previous version

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

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	Hazardous

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

HP8 Corrosive

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-hazardous 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 **

Other information:

Not restricted under Special Provision A16(62) IATA(ADR).

Transport of dangerous goods by land:

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SECTION 14: TRANSP	PORT	INFORMATION ** (continued	
With regard to A	DR 202	23 and RID 2023:	
	14.1	UN number or ID number:	UN3267
	14.2	UN proper shipping name:	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (sodium hydroxide)
	14.3	Transport hazard class(es):	8
		Labels:	8
8		Packing group:	II
		Environmental hazards: Special precautions for user	No
	14.0	Special regulations:	274
		Tunnel restriction code:	E
		Physico-Chemical properties:	see section 9
		Limited quantities:	1L
	14.7	Maritime transport in bulk	Not relevant
		according to IMO instruments:	
Transport of da	ngero	us goods by sea:	
With regard to IM	-	• •	
	14.1	UN number or ID number:	UN3267
^	14.2	UN proper shipping name:	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (sodium hydroxide)
		Transport hazard class(es):	8
		Labels:	8
		Packing group:	II
8		Marine pollutant:	No
	14.6	Special precautions for user	274
		Special regulations:	274
		EmS Codes:	F-A, S-B
		Physico-Chemical properties: Limited quantities:	see section 9 1 L
		Segregation group:	SGG18
	14.7	Maritime transport in bulk	Not relevant
		according to IMO	
		instruments:	
-	-	us goods by air:	
With regard to IA			
		UN number or ID number:	
		UN proper shipping name:	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (sodium hydroxide)
	14.3	Transport hazard class(es): Labels:	8
8	14.4	Packing group:	II
		Environmental hazards:	No
		Special precautions for user	
		Physico-Chemical properties:	see section 9
	14.7	Maritime transport in bulk according to IMO instruments:	Not relevant
** Changes with regards to t	the prov	vious version	

** 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:

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SECTION 15: REGULATORY INFORMATION (continued)

- Article 95, REGULATION (EU) No 528/2012: Not relevant
- Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Not relevant
- Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Not relevant

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- REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Not relevant
- Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Not relevant

Seveso III:

Not relevant

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

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.:

COMMISSION REGULATION (EU) 2020/878

COMPOSITION/INFORMATION ON INGREDIENTS (SECTION 3, SECTION 11, SECTION 12):

- New declared substances
- sodium hydroxide (1310-73-2)
- Removed substances
- sodium hydroxide (1310-73-2)
- Substances that contribute to the classification (SECTION 2):
 - New declared substances
- sodium hydroxide (1310-73-2)

CLP Regulation (EC) No 1272/2008 (SECTION 2, SECTION 16):

- Pictograms
- Hazard statements
- Precautionary statements
- TRANSPORT INFORMATION (SECTION 14):
 - · UN number
 - Packing group

Texts of the legislative phrases mentioned in section 2:

H290: May be corrosive to metals.

H314: Causes severe skin burns and eye damage.

H318: Causes serious eye damage.

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

CLP Regulation (EC) No 1272/2008:



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Date of compilation: 13/08/2020 Revised: 26/03/2024 Version: 3 (Replaced 2) SECTION 16: OTHER INFORMATION ** (continued) Acute Tox. 4: H302+H332 - Harmful if swallowed or if inhaled. Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects. Eye Dam. 1: H318 - Causes serious eye damage. Flam. Sol. 2: H228 - Flammable solid. Met. Corr. 1: H290 - May be corrosive to metals. Skin Corr. 1A: H314 - Causes severe skin burns and eye damage. Skin Irrit. 2: H315 - Causes skin irritation. STOT SE 3: H335 - May cause respiratory irritation. **Classification procedure:** Skin Corr. 1: Calculation method Eye Dam. 1: Calculation method Advice related to training: Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product. **Principal bibliographical sources:** http://echa.europa.eu http://eur-lex.europa.eu Abbreviations and acronyms: ADR: European agreement concerning the international carriage of dangerous goods by road IMDG: International maritime dangerous goods code IATA: International Air Transport Association ICAO: International Civil Aviation Organisation COD: Chemical Oxygen Demand BOD5: 5day biochemical oxygen demand BCF: Bioconcentration factor LD50: Lethal Dose 50 LC50: Lethal Concentration 50 EC50: Effective concentration 50 LogPOW: Octanolwater partition coefficient Koc: Partition coefficient of organic carbon UFI: unique formula identifier 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.

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Date of compilation: 13/08/2020 Revised: 26/03/2024 Version: 3 (Replaced 2)

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING 1.1 Product identifier: MB202 - Buffer A3 Other means of identification: Not relevant 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 Emergency telephone number: Contact Local Poison Information Center or Local Emergency Number 1.4

SECTION 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.

Eye Irrit. 2: Eye irritation, Category 2, H319 Skin Irrit. 2: Skin irritation, Category 2, H315

2.2 Label elements:

CLP Regulation (EC) No 1272/2008:

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



Hazard statements:

Not relevant

Precautionary statements:

Not relevant

UFI: QW10-F0YG-W00S-DN55

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 1907/200

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

** Changes with regards to the previous version



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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS ** (continued)

	Identification		Chemical name/Classification Co			
CAS:		guanidinium chloride	2(1)	Self-classified		
EC: Index: REACH:	200-002-3 607-148-00-0 01-2119977063-35- XXXX	Regulation 1272/2008	Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Irrit. 2: H315 - Warning	(1)	25 - <50 %	
	64-19-7	Acetic acid ⁽¹⁾		ATP CLP00		
EC: Index: REACH:	200-580-7 607-002-00-6 01-2119475328-30- XXXX	Regulation 1272/2008	Flam. Liq. 3: H226; Skin Corr. 1A: H314 - Danger		2,5 - <10 %	

(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.

Other information:

Identification	Specific concentration limit
CAS: 64-19-7 EC: 200-580-7	% (w/w) >=90: Skin Corr. 1A - H314 25<= % (w/w) <90: Skin Corr. 1B - H314 10<= % (w/w) <25: Skin Irrit. 2 - H315 % (w/w) >=25: Eye Dam. 1 - H318 10<= % (w/w) <25: Eye Irrit. 2 - H319

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	Acute toxicity		Genus
guanidinium chloride	LD50 oral	907 mg/kg	Rat
CAS: 50-01-1	LD50 dermal	Not relevant	
EC: 200-002-3	LC50 inhalation	Not relevant	

** Changes with regards to the previous version

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:

Not relevant

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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.

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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:

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

Avoid the evaporation of the product as it contains flammable substances, which could form flammable vapour/air mixtures in the presence of sources of ignition. Control sources of ignition (mobile phones, sparks,...) and transfer at slow speeds to avoid the creation of electrostatic charges. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

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SECTION 7: HANDLING AND STORAGE (continued)

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

7.2 Conditions for safe storage, including any incompatibilities:

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A.- Technical measures for storage

Store in a cool, dry, well-ventilated location

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):

Directive (EU) 2000/39, Directive 2004/37/EC, Directive (EU) 2006/15, Directive (EU) 2009/161, Directive (EU) 2017/164, Directive (EU) 2019/1831:

Identification	Occu	Occupational exposure limits			
Acetic acid	IOELV (8h)	10 ppm	25 mg/m ³		
CAS: 64-19-7 EC: 200-580-7	IOELV (STEL)	20 ppm	50 mg/m ³		

DNEL (Workers):

		Short exposure		Long exposure	
Identification		Systemic	Local	Systemic	Local
guanidinium chloride	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 50-01-1	Dermal	Not relevant	Not relevant	1 mg/kg	Not relevant
EC: 200-002-3	Inhalation	10,5 mg/m ³	Not relevant	3,5 mg/m ³	Not relevant
Acetic acid	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 64-19-7	Dermal	Not relevant	Not relevant	Not relevant	Not relevant
EC: 200-580-7	Inhalation	Not relevant	25 mg/m ³	Not relevant	25 mg/m ³

DNEL (General population):

		Short e	xposure	Long e	xposure
Identification		Systemic	Local	Systemic	Local
guanidinium chloride	Oral	Not relevant	Not relevant	0,5 mg/kg	Not relevant
CAS: 50-01-1	Dermal	Not relevant	Not relevant	0,5 mg/kg	Not relevant
EC: 200-002-3	Inhalation	Not relevant	Not relevant	0,87 mg/m ³	Not relevant
Acetic acid	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 64-19-7	Dermal	Not relevant	Not relevant	Not relevant	Not relevant
EC: 200-580-7	Inhalation	Not relevant	25 mg/m ³	Not relevant	25 mg/m ³

PNEC:

Identification					
Acetic acid	STP	85 mg/L	Fresh water	3,058 mg/L	
CAS: 64-19-7	Soil	0,47 mg/kg	Marine water	0,306 mg/L	
EC: 200-580-7	Intermittent	30,58 mg/L	Sediment (Fresh water)	11,36 mg/kg	
	Oral	Not relevant	Sediment (Marine water)	1,136 mg/kg	

8.2 Exposure controls:

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



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As ma use info the	a preventative rking>> in acc e, cleaning, ma prmation see s	measure cordance intenance ubsectior evention	it is recommend with Regulation e, class of protect 7.1. All information	(EU) 2016/425 ction,) consul ation contained	c Person . For mo t the info I herein i	al Protective Equ re information of rmation leaflet p a recommenda	n Persoi provideo ition wh	, with the corresponding < <ce nal Protective Equipment (storage, d by the manufacturer. For more ich needs some specification from measures at its disposal.</ce
The	e use of protec	tion equi	pment will be ne	ecessary if a mi	st forms	or if the occupat	tional e	xposure limits are exceeded.
C Spe	ecific protection	n for the	hands				_	
_	Pictogram		PPE	Labelling	C	EN Standard		Remarks
	Mandatory hand protection	(Materia Breakthr	l protective gloves al: Viton®-Butyl, ough time: > 480 ickness: 0.7 mm)		EN I	50 21420:2020	Repla	ace the gloves at any sign of deterioration.
tota		d has the	e of several subs refore to be che				erial car	n not be calculated in advance with
	Pictogram		PPE	Labelling	C	EN Standard		Remarks
	Mandatory face protection		ic glasses against h/projections.			N 166:2002 SO 4007:2018		daily and disinfect periodically according to anufacturer´s instructions. Use if there is a risk of splashing.
E Boo	dy protection							
	Pictogram		PPE	Labelling	C	EN Standard		Remarks
		W	ork clothing	CATI			perioo recom	ce before any evidence of deterioration. Fo ds of prolonged exposure to the product for professional/industrial users CE III is mended, in accordance with the regulation ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994.
		Anti-s	lip work shoes	CAT II	EN I	50 20347:2012	perioo recom	ce before any evidence of deterioration. Fo ds of prolonged exposure to the product for professional/industrial users CE III is mended, in accordance with the regulation EN ISO 20345:2012 y EN 13832-1:2007
F Add	ditional emerge	ency mea	sures					
	Emergency mea	asure	St	andards		Emergency meas	sure	Standards
	Emergency sho	ower		SI Z358-1 11, ISO 3864-4:20)11	Eyewash station	ns	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
Enviro	onmental exp	osure c	ontrols:					
spillage Volati	e of both the p le organic co	roduct ar mpound	nd its container.	For additional i	nformati	on see subsectio		nmended to avoid environmental
).C. (Supply):			6 weight				
	0.C. density at	20 ºC:	-	kg/m ³ (32,14	lg/L)			
	erage carbon n		2	-	- /			
	erage molecula		60,1	g/mol				
Ave	-							



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ECI	TION 9: PHYSICAL AND CHEMICAL PROPERTIE	S (continued)					
.1	Information on basic physical and chemical pro						
	For complete information see the product datasheet.						
	Appearance:						
	Physical state at 20 °C:	Liquid					
	Appearance:	Not available					
	Colour:	Colourless					
	Odour:	Harsh					
	Odour threshold:	Not relevant *					
	Volatility:	Not relevant					
	Boiling point at atmospheric pressure:	101 °C					
	Vapour pressure at 20 °C:	2340 Pa					
	Vapour pressure at 20 °C:	12320,93 Pa (12,32 kPa)					
	Evaporation rate at 20 °C:	Not relevant *					
	Product description:	Not relevant					
	Density at 20 °C:	1108,2 kg/m³					
	Relative density at 20 °C:	1,108					
	Dynamic viscosity at 20 °C:	1,100 1,75 cP					
	Kinematic viscosity at 20 °C:	1,58 mm ² /s					
	Kinematic viscosity at 20 °C:	Not relevant *					
	Concentration:	Not relevant *					
	pH:	4,1 - 4,3					
	Vapour density at 20 °C:	Not relevant *					
	Partition coefficient n-octanol/water 20 °C:	Not relevant *					
	Solubility in water at 20 °C:	Not relevant *					
	Solubility properties:	Not relevant *					
	Decomposition temperature:	Not relevant *					
	Melting point/freezing point: Flammability:	Not relevant *					
	-	Non Flammable (> 60 0C)					
	Flash Point:	Non Flammable (>60 °C)					
	Flammability (solid, gas):	Not relevant *					
	Autoignition temperature:	427 °C					
	Lower flammability limit:	Not relevant *					
	Upper flammability limit:	Not relevant *					
	Particle characteristics:	Non-applicable					
	Median equivalent diameter:	Non-applicable					
.2	Other information:						
	Information with regard to physical hazard clas						
	Explosive properties:	Not relevant *					
	Oxidising properties:	Not relevant *					
	Corrosive to metals:	Not relevant *					
	Heat of combustion:	Not relevant *					
	Aerosols-total percentage (by mass) of flammable components: Other safety characteristics:	Not relevant *					
	Surface tension at 20 °C:	Not relevant *					
	*Not relevant due to the nature of the product, not providing inf						

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Version: 3 (Replaced 2) SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Refraction index:

Not relevant *

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

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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
Avoid strong acids	Not applicable	Avoid direct impact	Not applicable	Avoid alkalis or strong bases

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: 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):

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CTION 11: TOXICOLOGICAL	INFORMATION ** (con	tinued)			
as hazardous for the effect IARC: Not relevant - Mutagenicity: Based on hazardous for this effect. F - Reproductive toxicity: B	on available data, the classif ts mentioned. For more infor available data, the classifica For more information see sec Based on available data, the this effect. For more inform	rmation see section ation criteria are r ction 3. classification crite	on 3. not met, as it does ria are not met, as	not contain substances	classified as
 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, as it does not contain substances classified as hazardous for this effect. 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:					
Not relevant					
Specific toxicology information	ation on the substances:				
	Identification		Acut	te toxicity	Genus
Acetic acid			LD50 oral	>2000 mg/kg	
CAS: 64-19-7			LD50 dermal	>2000 mg/kg	
EC: 200-580-7			LC50 inhalation	>20 mg/L	

guanidinium chloride
CAS: 50-01-1
EC: 200-002-3

Acute Toxicity Estimate (ATE mix):

	ATE mix	Ingredient(s) of unknown toxicity
Oral	3628 mg/kg (Calculation method)	0 %
Dermal	>2000 mg/kg (Calculation method)	Non-applicable
Inhalation	>20 mg/L (4 h) (Calculation method)	Non-applicable

LD50 oral

LD50 dermal LC50 inhalation 907 mg/kg (ATEi)

>2000 mg/kg

>5 mg/L

11.2 Information on other hazards:

Endocrine disrupting properties

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

Other information

Not relevant

** 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

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.

12.1 Toxicity:

** Changes with regards to the previous version

- CONTINUED ON NEXT PAGE -

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Version: 3 (Replaced 2) SECTION 12: ECOLOGICAL INFORMATION ** (continued)

	Identification			Concentration		S	pecies		Genu
	Acetic acid		LC50	75 mg/L (96 h)			macrochiru	IS	Fish
	CAS: 64-19-7		EC50	47 mg/L (24 h)			nia magna		Crustac
	EC: 200-580-7		EC50	Not relevant					
	Chronic toxicity:								
	Identification			Concentration			pecies		Genu
	guanidinium chloride		NOEC	181 mg/L			ales promela	26	Fish
	CAS: 50-01-1 EC: 200-002-3		NOEC	2,9 mg/L		· · · ·	nia magna	13	Crustac
	Acetic acid		NOEC	57,2 mg/L			nchus myki	55	Fish
	CAS: 64-19-7 EC: 200-580-7		NOEC	80 mg/L		· · · · · · · · · · · · · · · · · · ·	nia magna	55	Crustad
2	Persistence and degradability:								
	Substance-specific information	:							
	Identification		٦	Degradability			Biodegradal	hility	
	guanidinium chloride		BOD5	Not relevant	Conc	entration	bloacgradal	20 mg/L	
	CAS: 50-01-1		COD	Not relevant	Perio			20 mg/L 22 days	
	EC: 200-002-3		BOD5/COD	Not relevant		degradable		100 %	
	Acetic acid		BOD5	Not relevant		entration		100 mg/	/L
	CAS: 64-19-7		COD	Not relevant	Perio			14 days	
	EC: 200-580-7		BOD5/COD	Not relevant		odegradable		74 %	
z	Bioaccumulative potential:					-			
	guanidinium chloride				BC	F	1		
	CAS: 50-01-1					w Log	-1.63		
	EC: 200-002-3				_	ential	Low		
	Acetic acid				BC	F	3		
	CAS: 64-19-7				Po	w Log	-0.71		
	EC: 200-580-7				Pot	ential	Low		
1	Mobility in soil:								
	Identification		At	sorption/desorption			Volat	tility	
	Acetic acid		Кос	Not relevant		Henry		Not rele	vant
	CAS: 64-19-7		Conclusion	Not relevant		Dry soil		Not rele	
	EC: 200-580-7		Surface tension	on 2,699E-2 N/m	(25 °C)	Moist soil		Not rele	vant
	Results of PBT and vPvB assess	sment:							
5	Product does not meet PBT/vPvB cr	riteria							
	Endocrine disrupting properties	5:							
	Endocrine-disrupting properties: Th		s not meet t	he criteria.					
6									
6		e product does							
6 7	Other adverse effects:	e product does							
6 7		e product does							
6 7	Other adverse effects:								
6 7	Other adverse effects: Not described	оп							
6 7	Other adverse effects: Not described	оп							
6 7 0111	Other adverse effects: Not described	оп							
6 7 0111	Other adverse effects: Not described These with regards to the previous version ION 13: DISPOSAL CONSIDER	оп	Description				Waste class	s (Regula 1357/201	

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

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SECTION 13: DISPOSAL CONSIDERATIONS (continued)

HP6 Acute Toxicity, HP4 Irritant — skin irritation and eye damage

Revised: 26/03/2024

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-hazardous 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:

withitig		
14.1	UN number or ID number:	Not relevant
14.2	UN proper shipping name:	Not relevant
14.3	Transport hazard class(es):	Not relevant
	Labels:	Not relevant
14.4	Packing group:	Not relevant
14.5	Environmental hazards:	No
14.6	Special precautions for user	
	Special regulations:	Not relevant
	Tunnel restriction code:	Not relevant
	Physico-Chemical properties:	see section 9
	Limited quantities:	Not relevant
14.7	Maritime transport in bulk	Not relevant
	according to IMO	
	instruments:	
Transpo	rt of dangerous goods by sea:	
With read	rd to IMDG 41-22:	
· · · J ·		
14.1	UN number or ID number:	Not relevant
5	UN number or ID number:	Not relevant Not relevant
14.1	UN number or ID number:	
14.1 14.2	UN number or ID number: UN proper shipping name:	Not relevant
14.1 14.2 14.3	UN number or ID number: UN proper shipping name: Transport hazard class(es):	Not relevant Not relevant
14.1 14.2 14.3 14.4	UN number or ID number: UN proper shipping name: Transport hazard class(es): Labels:	Not relevant Not relevant Not relevant
14.1 14.2 14.3 14.4	UN number or ID number: UN proper shipping name: Transport hazard class(es): Labels: Packing group: Marine pollutant:	Not relevant Not relevant Not relevant Not relevant
14.1 14.2 14.3 14.4 14.5	UN number or ID number: UN proper shipping name: Transport hazard class(es): Labels: Packing group: Marine pollutant:	Not relevant Not relevant Not relevant Not relevant
14.1 14.2 14.3 14.4 14.5	UN number or ID number: UN proper shipping name: Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user	Not relevant Not relevant Not relevant Not relevant No
14.1 14.2 14.3 14.4 14.5	UN number or ID number: UN proper shipping name: Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations:	Not relevant Not relevant Not relevant Not relevant No
14.1 14.2 14.3 14.4 14.5	UN number or ID number: UN proper shipping name: Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes:	Not relevant Not relevant Not relevant Not relevant No
14.1 14.2 14.3 14.4 14.5	UN number or ID number: UN proper shipping name: Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties:	Not relevant Not relevant Not relevant No Not relevant See section 9
14.1 14.2 14.3 14.4 14.5	UN number or ID number: UN proper shipping name: Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities:	Not relevant Not relevant Not relevant No Not relevant See section 9 Not relevant
14.1 14.2 14.3 14.4 14.5 14.6	UN number or ID number: UN proper shipping name: Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group: Maritime transport in bulk according to IMO	Not relevant Not relevant Not relevant No Not relevant See section 9 Not relevant Not relevant Not relevant
14.1 14.2 14.3 14.4 14.5 14.6	UN number or ID number: UN proper shipping name: Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group: Maritime transport in bulk according to IMO instruments:	Not relevant Not relevant Not relevant No Not relevant See section 9 Not relevant Not relevant Not relevant
14.1 14.2 14.3 14.4 14.5 14.6	UN number or ID number: UN proper shipping name: Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group: Maritime transport in bulk according to IMO	Not relevant Not relevant Not relevant No Not relevant See section 9 Not relevant Not relevant Not relevant

With regard to IATA/ICAO 2024:

Version: 3 (Replaced 2)

Revised: 26/03/2024



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SECTION 14: TRANSPORT INFORMAT	ION (continued)	
14.1 UN number or ID numb	ber: Not relevant	
14.2 UN proper shipping na	me: Not relevant	
14.3 Transport hazard class	(es): Not relevant	
Labels:	Not relevant	
14.4 Packing group:	Not relevant	
14.5 Environmental hazards	No No	
14.6 Special precautions for	user	
Physico-Chemical properti	es: see section 9	
147 Mavitima transport in k		

14.7 Maritime transport in bulk Not relevant according to IMO instruments:

SECTION 15: REGULATORY INFORMATION **

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

- Article 95, REGULATION (EU) No 528/2012: Not relevant
- Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Not relevant
- Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Not relevant
- REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Not relevant
- Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Not relevant

Seveso III:

Not relevant

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 ashtravs.

-tricks and jokes,

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

Specific provisions in terms of protecting people or the environment:

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

Other legislation:

The product could be affected by sectorial legislation

15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

** Changes with regards to the previous version

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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e of compilation: 13/08/2020	Revised: 26/03/2024	Version: 3 (Replaced 2)
SECTION 16: OTHER INFORM	ATION ** (continued)	
COMMISSION REGULATION COMPOSITION/INFORMATIC · New declared substances guanidinium chloride (N ÓN INGREDIENTS (SEC	CTION 3, SECTION 11, SECTION 12):
Acetic acid (64-19-7) • Removed substances Hazardous substance		
Acetic acid (64-19-7) Substances that contribute to Removed substances		ON 2):
Hazardous substances CLP Regulation (EC) No 1272 Hazard statements		ION 16):
Precautionary statements REGULATORY INFORMATION	(SECTION 15):	tain dangerous substances and mixtures (Annex XVII REACH, etc)
Texts of the legislative pl H315: Causes skin irritation.		-
H319: Causes serious eye irr Texts of the legislative pl		ction 3:
The phrases indicated do not individual components which	refer to the product itself appear in section 3	; they are present merely for informative purposes and refer to the
CLP Regulation (EC) No 1 Acute Tox. 4: H302 - Harmfu	l if swallowed.	
Eye Irrit. 2: H319 - Causes s Flam. Liq. 3: H226 - Flamma Skin Corr. 1A: H314 - Causes Skin Irrit. 2: H315 - Causes s	ble liquid and vapour. severe skin burns and eye	e damage.
Classification procedure: Skin Irrit. 2: Calculation meth Eye Irrit. 2: Calculation meth		
Advice related to training		
interpretation of this safety o	ata sheet, as well as the la	risks for staff using this product and to facilitate their comprehension and label on the product.
Principal bibliographical s http://echa.europa.eu	sources:	
http://eur-lex.europa.eu		
Abbreviations and acrony		
ADR: European agreement c IMDG: International maritime IATA: International Air Trans	e dangerous goods code	al carriage of dangerous goods by road
ICAO: International Civil Avia COD: Chemical Oxygen Dem BOD5: 5day biochemical oxy	and	
BCF: Bioconcentration factor LD50: Lethal Dose 50	gen demand	
LC50: Lethal Concentration 5 EC50: Effective concentration	n 50	
LogPOW: Octanolwater parti Koc: Partition coefficient of o UFI: unique formula identifie	rganic carbon	
IARC: International Agency f		

** 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.

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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING 1.1 Product identifier: MB202 - Buffer AY Other means of identification: Not relevant 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 F

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.

SECTION 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.

Eye Irrit. 2: Eye irritation, Category 2, H319 Flam. Liq. 3: Flammable liquids, Category 3, H226 Skin Irrit. 2: Skin irritation, Category 2, H315

2.2 Label elements:

CLP Regulation (EC) No 1272/2008:

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

Warning

· · ·

Hazard statements:

Not relevant

Precautionary statements:

Not relevant

UFI: 9220-G0C9-H00S-QAA9

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:

** Changes with regards to the previous version





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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS ** (continued)

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

	Identification		Chemical name/Classification			
CAS:	64-17-5	ethanol ⁽¹⁾ Self-		thanol ⁽¹⁾ Self-classified		
	200-578-6 603-002-00-5 01-2119457610-43- XXXX	Regulation 1272/2008	Eye Irrit. 2: H319; Flam. Liq. 2: H225 - Danger	(1) (1)	25 - <50 %	
CAS:		guanidinium chloride	2(1)	Self-classified		
	200-002-3 607-148-00-0 01-2119977063-35- XXXX	Regulation 1272/2008	Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Irrit. 2: H315 - Warning	()	25 - <50 %	

⁽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.

Other information:

Identification	Specific concentration limit
ethanol CAS: 64-17-5 EC: 200-578-6	% (w/w) >=50: Eye Irrit. 2 - H319
A suite to visite a stimulta for the substance in Dart 2 of America V() to Da	

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	Acut	Genus	
guanidinium chloride	LD50 oral	907 mg/kg	Rat
CAS: 50-01-1	LD50 dermal	Not relevant	
EC: 200-002-3	LC50 inhalation	Not relevant	

** Changes with regards to the previous version

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:

Not relevant

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SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

Foam extinguisher (AB), Dry Chemical Powder (ABC) Fire Extinguisher, Carbon dioxide extinguisher (BC)

Revised: 26/03/2024

Unsuitable extinguishing media:

Water jet

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

Personal precautions, protective equipment and emergency procedures: 6.1

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:

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.

Reference to other sections: 64

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. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

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



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SECTION 7: HANDLING AND STORAGE (continued)

Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks,...) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems defined in Directive 2014/34/EC (ATEX 100) and with the minimum requirements for protecting the security and health of workers under the selection criteria of Directive 1999/92/EC (ATEX 137). Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Store in a cool, dry, well-ventilated location

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):

There are no applicable occupational exposure limits for the substances contained in the product

DNEL (Workers):

		Short exposure		Long exposure	
Identification		Systemic	Local	Systemic	Local
ethanol	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 64-17-5	Dermal	Not relevant	Not relevant	343 mg/kg	Not relevant
EC: 200-578-6	Inhalation	Not relevant	Not relevant	950 mg/m ³	Not relevant
guanidinium chloride	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 50-01-1	Dermal	Not relevant	Not relevant	1 mg/kg	Not relevant
EC: 200-002-3	Inhalation	10,5 mg/m ³	Not relevant	3,5 mg/m ³	Not relevant

DNEL (General population):

		Short e	Short exposure		Long exposure	
Identification		Systemic	Local	Systemic	Local	
ethanol	Oral	Not relevant	Not relevant	87 mg/kg	Not relevant	
CAS: 64-17-5	Dermal	Not relevant	Not relevant	206 mg/kg	Not relevant	
EC: 200-578-6	Inhalation	Not relevant	Not relevant	114 mg/m ³	Not relevant	
guanidinium chloride	Oral	Not relevant	Not relevant	0,5 mg/kg	Not relevant	
CAS: 50-01-1	Dermal	Not relevant	Not relevant	0,5 mg/kg	Not relevant	
EC: 200-002-3	Inhalation	Not relevant	Not relevant	0,87 mg/m ³	Not relevant	
PNEC:						

Identification				
ethanol	STP	580 mg/L	Fresh water	0,96 mg/L
CAS: 64-17-5	Soil	0,63 mg/kg	Marine water	0,79 mg/L
EC: 200-578-6	Intermittent	2,75 mg/L	Sediment (Fresh water)	3,6 mg/kg
	Oral	0,38 g/kg	Sediment (Marine water)	2,9 mg/kg



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

8.2 Exposure controls:

X NZYtech

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

The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.

C.- Specific protection for the hands

Pictogram	n	PPE	Labelling	CEN Standard	Remarks
Mandatory h protection		Chemical protective gloves (Material: Linear low-density polyethylene (LLDPE), Breakthrough time: > 480 min, Thickness: 0.062 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	Panoramic glasses against splash/projections.	CAT II	EN 166:2002 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

Pictog	ıram	PPE	Labelling	CEN Standard	Remarks
Mandatory of body prot	complete	Antistatic and fireproof protective clothing		EN 1149-1:2006 EN 1149-2:1997 EN 1149-3:2004 EN 168:2002 EN ISO 14116:2015 EN 1149-5:2018	Limited protection against flames.
Mandator	ry foot	Safety footwear with antistatic and heat resistant properties		EN ISO 13287:2020 EN ISO 20345:2011	Replace boots at any sign of deterioration.

F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
^ +	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	0 +	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
Emergency shower		Eyewash stations	

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

Volatile organic compounds:

With regard to Directive 2010/75/EU, this product has the following characteristics:

38 % weight
374,39 kg/m ³ (374,39 g/L)
2
46,1 g/mol

** Changes with regards to the previous version



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TION 9: PHYSICAL AND CHEMICAL PROPERTIE	ES **				
Information on basic physical and chemical pro					
For complete information see the product datasheet.					
Appearance:					
Physical state at 20 °C:	Liquid				
Appearance:	Not available				
Colour:	Colourless				
Odour:	Alcohol				
Odour threshold:	Not relevant *				
Volatility:					
Boiling point at atmospheric pressure:	87 °C				
Vapour pressure at 20 °C:	3662 Pa				
Vapour pressure at 50 °C:	18099,58 Pa (18,1 kPa)				
Evaporation rate at 20 °C:	Not relevant *				
Product description:					
Density at 20 °C:	985,2 kg/m³				
Relative density at 20 °C:	0,985				
Dynamic viscosity at 20 °C:	1,83 cP				
Kinematic viscosity at 20 °C:	1,85 mm²/s				
Kinematic viscosity at 40 °C:	Not relevant *				
Concentration:	Not relevant *				
pH:	7,15 - 7,35				
Vapour density at 20 ºC:	Not relevant *				
Partition coefficient n-octanol/water 20 °C:	Not relevant *				
Solubility in water at 20 °C:	Not relevant *				
Solubility properties:	Not relevant *				
Decomposition temperature:	Not relevant *				
Melting point/freezing point:	Not relevant *				
Flammability:					
Flash Point:	23 °C				
Flammability (solid, gas):	Not relevant *				
Autoignition temperature:	423 °C				
Lower flammability limit:	Not available				
Upper flammability limit:	Not available				
Particle characteristics:					
Median equivalent diameter:	Non-applicable				
Other information:					
Information with regard to physical hazard cla	sses:				
Explosive properties:	Not relevant *				
Oxidising properties:	Not relevant *				
Corrosive to metals:	Not relevant *				
Heat of combustion:	Not relevant *				
Aerosols-total percentage (by mass) of flammable	Not relevant *				
components:					
Heat of co Aerosols-to componen Other saf	mbustion: otal percentage (by mass) of flammable				

** Changes with regards to the previous version

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Surface tension at 20 °C: Refraction index: Not relevant * Not relevant *

(continued)

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

Revised: 26/03/2024

** Changes with regards to the previous version

SECTION 10: STABILITY AND REACTIVITY

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES **

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	Risk of combustion	Avoid direct impact	Not applicable

10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids Not applicable		Avoid direct impact	Not applicable	Avoid alkalis or strong bases

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 (CO_2), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION **

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

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

Dangerous health implications:

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

A- Ingestion (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
- B- Inhalation (acute effect):
 - Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for inhalation. For more information see section 3.
 - Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not 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):

** Changes with regards to the previous version

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ECTION 11: TOXICOLOGICA	L INFORMATION ** (co	ntinued)		
as hazardous for the effe IARC: ethanol (1) - Mutagenicity: Based of hazardous for this effect - Reproductive toxicity:	ects mentioned. For more inf on available data, the classifi . For more information see so	ormation see section 3 cation criteria are not ection 3. e classification criteria	ot met, as it does not contain subs 3. met, as it does not contain substa are not met, as it does not contain	nces classified as
hazardous with sensitisir - Skin: Based on availa	ng effects. For more informat ble data, the classification cr . For more information see so	tion see section 3. iteria are not met, as ection 3.	net, as it does not contain substan it does not contain substances clas	
Based on available data, this effect. For more info G- Specific target organ tox	rmation see section 3.	·	ot contain substances classified as	hazardous for
it does not contain subst - Skin: Based on availa	ances classified as hazardou	s for this effect. For miteria are not met, as	able data, the classification criteria nore information see section 3. it does not contain substances clas	,
Based on available data, this effect. For more info Other information:		e not met, as it does n	ot contain substances classified as	hazardous for
Not relevant				
Specific toxicology inform	nation on the substances	:		
	T-J			

Identification	Acut	Genus	
guanidinium chloride	LD50 oral	907 mg/kg (ATEi)	Rat
CAS: 50-01-1	LD50 dermal	>2000 mg/kg	
EC: 200-002-3	LC50 inhalation	>5 mg/L	
ethanol	LD50 oral	6200 mg/kg	Rat
CAS: 64-17-5	LD50 dermal	20000 mg/kg	Rabbit
EC: 200-578-6	LC50 inhalation	124,7 mg/L (4 h)	Rat

Acute Toxicity Estimate (ATE mix):

	Ingredient(s) of unknown toxicity	
Oral	3164,69 mg/kg (Calculation method)	0 %
Dermal	>2000 mg/kg (Calculation method)	Non-applicable
Inhalation	>20 mg/L (4 h) (Calculation method)	Non-applicable

11.2 Information on other hazards:

Endocrine disrupting properties

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

Other information

Not relevant

** 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

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.

12.1 Toxicity:

** Changes with regards to the previous version



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	Acute toxicity:								
	Identification			Concentration		Spec	cies		Genus
	ethanol	L	C50	11000 mg/L (96 h)		Alburnus	alburnus		Fish
	CAS: 64-17-5	E	C50	9268 mg/L (48 h)		Daphnia	magna		Crustacea
	EC: 200-578-6	E	C50	1450 mg/L (192 h)		Microcystis	aerugino	sa	Algae
	Chronic toxicity:								
	Identification			Concentration		Spec	cies		Genus
	ethanol	N	IOEC	250 mg/L		Danio	rerio		Fish
	CAS: 64-17-5 EC: 200-578-6	Ν	IOEC	2 mg/L		Ceriodaph	nia dubia	1	Crustacea
	guanidinium chloride	N	IOEC	181 mg/L		Pimephales	s promela	is	Fish
	CAS: 50-01-1 EC: 200-002-3	N	IOEC	2,9 mg/L		Daphnia	magna		Crustacea
.2	Persistence and degradability:								
	Substance-specific information:								
	Identification		De	gradability		Bio	degradat	oility	
	ethanol	BOD5		Not relevant	Conce	entration		100 mg/l	
	CAS: 64-17-5	COD		Not relevant	Period			14 days	
	EC: 200-578-6	BOD5/C	:OD	Not relevant	% Bio	degradable		89 %	
	guanidinium chloride	BOD5		Not relevant	Conce	entration		20 mg/L	
	CAS: 50-01-1	COD		Not relevant	Period			22 days	
	EC: 200-002-3	BOD5/C	OD	Not relevant	% Bio	odegradable		100 %	
.3	Bioaccumulative potential:								
	Substance-specific information:								
	Identification					Bioaccumulation potential			
	ethanol				BC	BCF 3			
	CAS: 64-17-5				Pow Log -0		-0.31).31	
	EC: 200-578-6				Potential Lo		Low		
	guanidinium chloride		BCF		F	1			
	CAS: 50-01-1				Pov	v Log	-1.63		
	EC: 200-002-3				Pot	ential	Low		
.4	Mobility in soil:								
	Identification		Abso	orption/desorption			Volat	ility	
	ethanol	Кос		1		Henry		4,61E-1 F	^p a·m³/mol
	CAS: 64-17-5	Conclus	ion	Very High		Dry soil		Yes	
	EC: 200-578-6	Surface	tension	2,339E-2 N/m (25 ºC)	Moist soil		Yes	
.5	Results of PBT and vPvB assessment:								
	Product does not meet PBT/vPvB criteria								
.6	Endocrine disrupting properties:								
	Endocrine-disrupting properties: The product of	does not m	eet the	e criteria.					
.7	Other adverse effects:								
	Not described								
	nes with regards to the previous version								
ang	5 ,								
_	ION 13: DISPOSAL CONSIDERATIONS								
CT.									
CT.	ION 13: DISPOSAL CONSIDERATIONS	Descri	ption			Wa		s (Regulat 1357/2014	

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

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SECTION 13: DISPOSAL CONSIDERATIONS (continued)

HP3 Flammable, HP6 Acute Toxicity, HP4 Irritant — skin irritation and eye damage

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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-hazardous 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:

		23 anu RID 2023:	
	14.1	UN number or ID number:	UN1993
	14.2	UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. (ethanol)
31	14.3	Transport hazard class(es):	3
$\langle \simeq \rangle$		Labels:	3
	14.4	Packing group:	III
3	14.5	Environmental hazards:	No
•	14.6	Special precautions for user	
		Special regulations:	274, 601
		Tunnel restriction code:	D/E
		Physico-Chemical properties:	see section 9
		Limited quantities:	5 L
	14.7	Maritime transport in bulk according to IMO instruments:	Not relevant
Transport of o	langero	ous goods by sea:	
With regard to	IMDG 41	-22:	
	14.1	UN number or ID number:	UN1993
	14.2	UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. (ethanol)
	14.3	Transport hazard class(es):	3
		Labels:	3
$\langle - \rangle$	14.4	Packing group:	III
3	14.5	Marine pollutant:	No
	14.6	Special precautions for user	
		Special regulations:	274, 223, 955
		EmS Codes:	F-E, S-E
		Physico-Chemical properties:	see section 9
		Physico-Chemical properties: Limited quantities:	see section 9 5 L
	14.7	Limited quantities:	5 L
Transport of c		Limited quantities: Segregation group: Maritime transport in bulk according to IMO	5 L Not relevant
Transport of c With regard to	langero	Limited quantities: Segregation group: Maritime transport in bulk according to IMO instruments: us goods by air:	5 L Not relevant



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SECTION 14: TRANSPOR	T INFORMATION ** (continued	d)
	 UN number or ID number: UN proper shipping name: Transport hazard class(es): Labels: Packing group: Environmental hazards: Special precautions for user 	UN1993 FLAMMABLE LIQUID, N.O.S. (ethanol) 3 3 III No
14	Physico-Chemical properties: 7 Maritime transport in bulk according to IMO instruments:	see section 9 Not relevant

** 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:

- Article 95, REGULATION (EU) No 528/2012: ethanol (64-17-5) PT: (1,2,4,6)
- Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Not relevant
- Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Not relevant
- REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Not relevant
- Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Not relevant

Seveso III:

Section	Description	Lower-tier requirements	Upper-tier requirements
P5c	FLAMMABLE LIQUIDS	5000	50000

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

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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of compilation: 13/08/2020 CTION 16: OTHER INFORM	Revised: 26/03/2024	Version: 3 (Replaced 2)
COMMISSION REGULATION COMPOSITION/INFORMATI		TION 3, SECTION 11, SECTION 12):
· New declared substance		
guanidinium chloride	(50-01-1)	
 Removed substances 		
Hazardous substance		
Substances that contribute • Removed substances	the classification (SECTIO	JN 2):
Hazardous substance	102	
CLP Regulation (EC) No 127		ON 16):
· Pictograms	, , ,	,
 Hazard statements 		
Precautionary statement		
Information on basic physic • Flash Point	and chemical properties (SECTION 9):
TRANSPORT INFORMATION	(SECTION 14).	
· UN number	(
Packing group		
Texts of the legislative p	hrases mentioned in sec	tion 2:
H315: Causes skin irritation	1	
H226: Flammable liquid and	•	
H319: Causes serious eye ir		
Texts of the legislative p		
		; they are present merely for informative purposes and refer to the
individual components whic		
CLP Regulation (EC) No		
Acute Tox. 4: H302 - Harmf Eye Irrit. 2: H319 - Causes		
Flam. Liq. 2: H225 - Highly		r
Skin Irrit. 2: H315 - Causes		
Classification procedure		
Skin Irrit. 2: Calculation me		
Flam. Liq. 3: Calculation me	thod (2.6.4.3)	
Eye Irrit. 2: Calculation met	nod	
Advice related to trainin	-	
interpretation of this safety	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	-	I somione of demonstrate burned
IMDG: International maritim		carriage of dangerous goods by road
IATA: International Air Trans		
ICAO: International Civil Av		
COD: Chemical Oxygen Der	nand	
BOD5: 5day biochemical ox		
BCF: Bioconcentration facto		
LD50: Lethal Dose 50 LC50: Lethal Concentration	50	
EC50: Effective concentration		
LogPOW: Octanolwater part		
Koc: Partition coefficient of	organic carbon	
UFI: unique formula identifi		
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.



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MB202 - RNase A

Date of	compilation: 13/08/202	20 Revi	sed: 26/03/2024	Version: 2 (Replaced 1)		
SECT	ION 1: IDENTIFICA	ATION OF TH	HE SUBSTANCE/N	IXTURE AND OF THE COMPANY/UNDERTAKING		
1.1	Product identifier:	MB202 - RNa	se A			
		Nuclease, ribe)-			
	CAS:	9001-99-4				
	EC:	232-646-6				
	Index:	Non-applicab	e			
	REACH:	Non-applicab	e			
	Other means of ide	entification:				
	Not relevant					
1.2	Relevant identified	d uses of the	substance or mixt	ure and uses advised against:		
	Relevant uses: Labor	atory. For prof	essional users only.			
	Uses advised against	: All uses not s	pecified in this secti	on or in section 7.3		
1.3	Details of the supp	lier of the sa	fety 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 telepho	one number:		nter (Portugal) CIAV: +351 800 250 250; Outside Portugal: Call your formation Service or call local Life Saving Service.		

SECTION 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.

Resp. Sens. 1: Sensitisation, respiratory, Category 1, H334

2.2 Label elements:

CLP Regulation (EC) No 1272/2008:

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



Hazard statements:

Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statements:

P261: Avoid breathing dust

P284: Wear respiratory protection.

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

P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

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

2.3 Other hazards:

Product does not meet PBT/vPvB criteria Endocrine-disrupting properties: The product does not meet the criteria.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

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

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	Identification Chemical name/Classification		Concentratio	
CAS: 9001-99-4 EC: 232-646-6 Index: Non-applicable REACH: Non-applicable		Nuclease, ribo-	Self-classifie	d
	Non-applicable	Regulation 1272/2008	Resp. Sens. 1: H334 - Danger	100 %

3.2

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:

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:

In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of changes to the skin (stinging, redness, rashes, blisters,...), seek medical advice with this Safety Data Sheet

By eye contact:

This product does not contain substances classified as hazardous for eye contact. Rinse eyes thoroughly for at least 15 minutes with lukewarm water, ensuring that the person affected does not rub or close their eyes.

By ingestion/aspiration:

In case of consumption, seek immediate medical assistance showing the SDS for the product.

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

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

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

Not relevant

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.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

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For non-emergency personnel:

Preferably use aspiration for cleaning. Given the danger of the product by inhalation, any cleaning method that involves exposure to the product in this way (sweeping, etc.) is not recommended

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:

Preferably use aspiration for cleaning. Given the danger of the product by inhalation, any cleaning method that involves exposure to the product in this way (sweeping, etc.) is not recommended

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

Due to its non-inflammable nature, the product does not present a fire risk under normal conditions of storage, handling and use.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Store in a cool, dry, well-ventilated location

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):

Nuisance dust: Inhalable dust 10 mg/m3 // Respirable dust 4 mg/m3

DNEL (Workers):

Not relevant

DNEL (General population):

Not relevant

PNEC:

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TION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)					
Not relevant					
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</ce>					
Pictogram	PPE	Labelling	CEN Standard		Remarks
Mandatory respiratory tract protection	Filter mask for gases and vapours	CAT III	EN 405:2002+A1:201	0	place when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is ecommended to use isolation equipment.
C Specific protection	n for the hands				
Pictogram	PPE	Labelling	CEN Standard		Remarks
Mandatory hand protection	Protective gloves against minor risks	CATI		prolo profes CE	ce gloves in case of any sign of damage. For nged periods of exposure to the product for sional users/industrials, we recommend using E III gloves in line with standards EN ISO 20:2020 and EN ISO 374-1:2016+A1:2018
D Eye and face prot	ection				
Pictogram	PPE	Labelling	CEN Standard		Remarks
Mandatory face protection	Panoramic glasses against splash/projections.	CAT II	EN 166:2002 EN ISO 4007:2018		n daily and disinfect periodically according to nanufacturer's instructions. Use if there is a risk of splashing.
E Body protection					
Pictogram	PPE	Labelling	CEN Standard		Remarks
	Work clothing	CATI		perio recom	ace before any evidence of deterioration. For ids of prolonged exposure to the product for professional/industrial users CE III is nmended, in accordance with the regulations ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994.
	Anti-slip work shoes	CATI	EN ISO 20347:2012	perio recom	ace before any evidence of deterioration. For ds of prolonged exposure to the product for professional/industrial users CE III is nmended, in accordance with the regulations EN ISO 20345:2012 y EN 13832-1:2007
F Additional emerge	ency measures				
Emergency mea	asure St	andards	Emergency n	neasure	Standards
ISO 3864 Emergency shower		5I Z358-1 11, ISO 3864-4:20	11 DIN 12 899 ISO 3864-1:2011, ISO 3864-4:20		DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
Environmental exposure controls: In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D Volatile organic compounds: With regard to Directive 2010/75/EU, this product has the following characteristics: V.O.C. (Supply): 0 % weight					
V.O.C. density at 20 °C: 0 kg/m ³ (0 g/L)					



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued) Average carbon number: Not relevant

Not relevant

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Average molecular weight:

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1	1 Information on basic physical and chemical properties:			
	For complete information see the product datasheet.			
Appearance:				
	Physical state at 20 °C:	Solid		
	Appearance:	Not available		
	Colour:	White		
	Odour:	Odourless		
	Odour threshold:	Not relevant *		
	Volatility:			
	Boiling point at atmospheric pressure:	656 °C		
	Vapour pressure at 20 °C:	Not relevant *		
	Vapour pressure at 50 °C:	Not relevant *		
	Evaporation rate at 20 °C:	Not relevant *		
	Product description:			
	Density at 20 °C:	1400 kg/m³		
	Relative density at 20 °C:	1,4		
	Dynamic viscosity at 20 °C:	Not relevant *		
	Kinematic viscosity at 20 °C:	Not relevant *		
	Kinematic viscosity at 40 °C:	Not relevant *		
	Concentration:	Not relevant *		
	pH:	Not relevant *		
	Vapour density at 20 °C:	Not relevant *		
	Partition coefficient n-octanol/water 20 °C:	Not relevant *		
	Solubility in water at 20 °C:	Not relevant *		
	Solubility properties:	Not relevant *		
	Decomposition temperature:	Not relevant *		
	Melting point/freezing point:	243 °C		
	Flammability:			
	Flash Point:	351 °C		
	Flammability (solid, gas):	Not relevant *		
	Autoignition temperature:	Not relevant *		
	Lower flammability limit:	Not relevant *		
	Upper flammability limit:	Not relevant *		
	Explosive (Solid):			
	Lower explosive limit:	Not relevant *		
	Upper explosive limit:	Not relevant *		
	Particle characteristics:			
	Median equivalent diameter:	Not relevant *		
9.2	0.2 Other information:			
	*Not relevant, due to the nature of the product, not providing information property of its hazards.			

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

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Date of compilation: 13/08/2020 Revised: 26/03/2024 Version: 2 (Replaced 1) SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued) Information with regard to physical hazard classes: Explosive properties: Not relevant * Oxidising properties: Not relevant * Corrosive to metals: Not relevant * Heat of combustion: Not relevant * Aerosols-total percentage (by mass) of flammable Not relevant * components: Other safety characteristics: Surface tension at 20 °C: Not relevant * Refraction index: Not relevant * *Not relevant due to the nature of the product, not providing information 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 Not applicable Not applicable Not applicable 10.5 Incompatible materials: Water Acids Oxidising materials Combustible materials Others Avoid strong acids Not applicable Not applicable Not applicable Avoid alkalis or strong ba 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):

) NZYtech

- Acute toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for consumption. For more information see section 3

- Corrosivity/Irritability: 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.

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, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

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SECTION 11: TOXICOLOGICAL INFORMATION (continued)				
	C- Contact with the skin and the eyes (acute effect):			
	 Contact with the skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for skin contact. For more information see section 3. Contact with the eyes: 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. 			
D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):				
	 Carcinogenicity: Based on available data, the classification criteria are as hazardous for the effects mentioned. For more information see secti IARC: Not relevant Mutagenicity: Based on available data, the classification criteria are hazardous for this effect. For more information see section 3. Reproductive toxicity: Based on available data, the classification criteria are hazardous for this effect. For more information see section 3. 	on 3. not met, as it doo eria are not met,	es not contain substanc	es classified as
classified as hazardous for this effect. For more information see section 3. E- Sensitizing effects:				
	 Respiratory: Prolonged exposure can result in specific respiratory hypersensitivity. 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, as it does not contain substances classified as hazardous for this effect. For more information see section 3. G- Specific target organ toxicity (STOT)-repeated exposure: Specific target organ toxicity (STOT)-repeated exposure: 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. 			
	Not relevant			
	Specific toxicology information on the substances:			
	Identification	A	cute toxicity	Genus
	Nuclease, ribo-	LD50 oral	>2000 mg/kg	
1	CAS: 9001-99-4	LD50 dermal	>2000 mg/kg	
1	EC: 232-646-6	LC50 inhalation	>5 mg/L	
11.2	Information on other hazards:			
	Endocrine disrupting properties			
	Endocrine-disrupting properties: The product does not meet the criteria.			
	Other information			
	Not relevant			
L				
SECT	ION 12: ECOLOGICAL INFORMATION			
Based	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.

12.1 Toxicity:

Not available

12.2 Persistence and degradability:

Not available

12.3 Bioaccumulative potential:

Not available

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SECTION 12: ECOLOGICAL INFORMATION (continued)

12.4 Mobility in soil:

Not available

12.5 Results of PBT and vPvB assessment: Product does not meet PBT/vPvB criteria

12.6 Endocrine disrupting properties:

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

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12.7 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Code	Description	Waste class (Regulation (EU) No 1357/2014)
16 03 05*	organic wastes containing hazardous substances	Hazardous

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

HP13 Sensitising

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-hazardous 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:

14.1	UN number or ID number:	Not relevant	
14.2	UN proper shipping name:	Not relevant	
14.3	Transport hazard class(es):	Not relevant	
	Labels:	Not relevant	
14.4	Packing group:	Not relevant	
14.5	Environmental hazards:	No	
14.6	Special precautions for user		
	Special regulations:	Not relevant	
	Tunnel restriction code:	Not relevant	
	Physico-Chemical properties:	see section 9	
	Limited quantities:	Not relevant	
14.7	Maritime transport in bulk according to IMO instruments:	Not relevant	
Transport of dangerous goods by sea:			
With regard to IMDG 41-22:			



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SECTION 14: TRANSPORT INFORMATION (continued)			
	UN number or ID number:	Not relevant	
	UN proper shipping name:	Not relevant	
14.3	Transport hazard class(es):	Not relevant	
	Labels:	Not relevant	
14.4	Packing group:	Not relevant	
14.5	Marine pollutant:	No	
14.6	Special precautions for user		
	Special regulations:	Not relevant	
	EmS Codes:		
	Physico-Chemical properties:	see section 9	
	Limited quantities:	Not relevant	
	Segregation group:	Not relevant	
14.7	Maritime transport in bulk according to IMO instruments:	Not relevant	
Transpo	rt of dangerous goods by air:		
With rega	ard to IATA/ICAO 2024:		
	UN number or ID number: UN proper shipping name:	Not relevant Not relevant	
	Transport hazard class(es):	Not relevant	
14.5	Labels:	Not relevant	
14.4	Packing group:	Not relevant	
	Environmental hazards:	No	
	Special precautions for user		
14.0			
	Physico-Chemical properties:	see section 9	
14.7	Maritime transport in bulk according to IMO instruments:	Not relevant	

SECTION 15: REGULATORY INFORMATION

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

- Article 95, REGULATION (EU) No 528/2012: Not relevant
- Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Not relevant
- Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Not relevant
- REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Not relevant
- Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Not relevant

Seveso III:

Not relevant

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

Not relevant

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



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Date of compilation: 13/08/2020 Revised: 26/03/2024 Version: 2 (Replaced 1) SECTION 16: OTHER INFORMATION (continued) 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 Texts of the legislative phrases mentioned in section 2: H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled. Texts of the legislative phrases mentioned in section 3: The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3 CLP Regulation (EC) No 1272/2008: Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled. Advice related to training: Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product. Principal bibliographical sources: http://echa.europa.eu http://eur-lex.europa.eu Abbreviations and acronyms: ADR: European agreement concerning the international carriage of dangerous goods by road IMDG: International maritime dangerous goods code IATA: International Air Transport Association ICAO: International Civil Aviation Organisation COD: Chemical Oxygen Demand BOD5: 5day biochemical oxygen demand BCF: Bioconcentration factor LD50: Lethal Dose 50 LC50: Lethal Concentration 50 EC50: Effective concentration 50 LogPOW: Octanolwater partition coefficient Koc: Partition coefficient of organic carbon UFI: unique formula identifier IARC: International Agency for Research on Cancer

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.