

Product name: NZYMidiprep

Catalogue reference(s): MB05003, 5 columns

MB05004, 20 columns

MB05005, 3 x 20 columns

Components	MB05003	MB05004	MB05005	Safety Information
NZYTech Plasmid Midi columns	5 columns	4 x 5 columns	3 x 20 columns	Not Hazardous *
Buffer MW	1 x 60 mL	2 x 120 mL	6 x 120 mL	Not Hazardous *
Buffer ME	1 x 30 mL	1 x 120 mL	3 x 120 mL	Not Hazardous *
RNase A	1 x 2 mg	1 x 8 mg	3 x 8 mg	See specific MSDS
Buffer M3	1 x 25 mL	1 x 90 mL	3 x 90 mL	See specific MSDS
Buffer MEQ	1 x 15 mL	1 x 60 mL	3 x 60 mL	Not Hazardous *
Buffer M1	1 x 25 mL	1 x 90 mL	3 x 90 mL	Not Hazardous *
Buffer M2	1 x 25 mL	1 x 90 mL	3 x 90 mL	See specific MSDS

*The component mentioned above is not classified as hazardous according to CLP Regulation (EC) No 1272/2008. Consequently, does not require a Material Safety Data Sheet (MSDS), according to Regulation (EC) No 1907/2006, emended by Regulation (EC) No 2015/830.



Patrícia Ponte Executive Direction

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Date of compilation: 12/08/2020 Revised: 28/09/2020 Version: 2 (Replaced 1) SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING 1.1 Product identifier: MB050 - Buffer M2 Sodium dodecyl sulphate (powder) CAS: 151-21-3 EC: 205-788-1 Index: Non-applicable REACH: 01-2119489461-32-XXXX 1.2 Relevant identified uses of the substance or mixture and uses advised against: Relevant uses: Laboratory. For professional user only. Uses advised against: All uses not specified in this section or in section 7.3 Details of the supplier of the safety data sheet: 1.3 NZYTech Estrada do Paco do Lumiar Campus do Lumiar - Edif. E, r/c 1649-038 Lisboa - Lisboa - Portugal info@nzytech.com www.nzytech.com 1.4 Emergency telephone 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 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: Warning Hazard statements: Eye Irrit. 2: H319 - Causes serious eye irritation Skin Irrit. 2: H315 - Causes skin irritation **Precautionary statements:** P264: Wash thoroughly after handling P280: Wear protective gloves/protective clothing/eye protection/face protection P302+P352: IF ON SKIN: Wash with plenty of water P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P332+P313: If skin irritation occurs: Get medical advice/attention P337+P313: If eye irritation persists: Get medical advice/attention 2.3 Other hazards: Product fails to meet PBT/vPvB criteria SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS **

3.1 Substance:

Chemical description: Mixture of substances

Components:

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

** Changes with regards to the previous version



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

	Identification		Chemical name/Classification		Concentratio
CAS: 151-21-3		Sodium dodecyl sulp	hate (powder) ⁽¹⁾	Self-classified	
EC: Index: REACH:	205-788-1 Non-applicable 01-2119489461-32- XXXX	Regulation 1272/2008	Acute Tox. 4: H302+H332; Eye Dam. 1: H318; Flam. Sol. 2: H228; Skin Irrit. 2: H315; STOT SE 3: H335 - Danger	(1) (1) (2)	1 - <2,5 %
CAS:	1310-73-2	sodium hydroxide ⁽¹⁾		ATP CLP00	
EC: 215-185-5 Index: 011-002-00-6 REACH: 01-2119457892-27 XXXX	011-002-00-6 01-2119457892-27-	Regulation 1272/2008	Skin Corr. 1A: H314 - Danger		<1 %

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

3.2 Mixture:

Non-applicable

** 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 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:

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:

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

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

5.2 Special hazards arising from the substance or mixture:

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

5.3 Advice for firefighters:

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SECTION 5: FIREFIGHTING MEASURES (continued)

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:

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.

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:

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

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

Product is non-flammable under normal conditions of storage, handling and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

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):



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

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

DNEL (Workers):

		Short e	xposure	Long e	xposure
Identification		Systemic	Local	Systemic	Local
Sodium dodecyl sulphate (powder)	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 151-21-3	Dermal	Non-applicable	Non-applicable	4060 mg/kg	Non-applicable
EC: 205-788-1	Inhalation	Non-applicable	Non-applicable	285 mg/m ³	Non-applicable
sodium hydroxide	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 1310-73-2	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 215-185-5	Inhalation	Non-applicable	Non-applicable	Non-applicable	1 mg/m ³

DNEL (General population):

		Short e	exposure	Long ex	kposure
Identification		Systemic	Local	Systemic	Local
Sodium dodecyl sulphate (powder)	Oral	Non-applicable	Non-applicable	24 mg/kg	Non-applicable
CAS: 151-21-3	Dermal	Non-applicable	Non-applicable	2440 mg/kg	Non-applicable
EC: 205-788-1	Inhalation	Non-applicable	Non-applicable	85 mg/m ³	Non-applicable
sodium hydroxide	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 1310-73-2	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 215-185-5	Inhalation	Non-applicable	Non-applicable	Non-applicable	1 mg/m ³

PNEC:

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	Non-applicable	Sediment (Marine water)	0,697 mg/kg

8.2 **Exposure controls:**

A.- General security and hygiene measures in the work place

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Directive 89/686/EC. 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	PPE	Labelling	CEN Standard	Remarks			
	Mandatory hand protection	Protective gloves against minor risks	CATI		Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE III gloves in line with standards EN 420:2003+ A1:2009 and EN ISO 374-1:2016			
D	D Ocular and facial protection							
	Pictogram	PPE	Labelling	CEN Standard	Remarks			
	Mandatory face protection	Panoramic glasses against splash/projections.		EN 166:2001 EN ISO 4007:2018	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.			

E.- Body protection



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SECTION	8: EXPOSURE	CONTROLS/PERSON	AL PROTECT	ION (continued)		
	Pictogram	PPE	Labelling		CEN Standard		Remarks
		Work clothing	CATI			perio recom	ce before any evidence of deterioration. For ds of prolonged exposure to the product for professional/industrial users CE III is imended, in accordance with the regulations ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994.
		Anti-slip work shoes		E	N ISO 20347:2012	perio recom	the before any evidence of deterioration. For ds of prolonged exposure to the product for professional/industrial users CE III is mended, in accordance with the regulations EN ISO 20345:2012 y EN 13832-1:2007
F	Additional emerge	ency measures					
	Emergency mea	isure S	tandards		Emergency measu	ıre	Standards

Emergency measure	Standards	Emergency measure	Standards	1
+	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		I

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

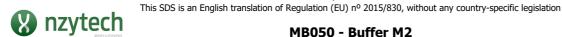
Volatile organic compounds:

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)
Average carbon number:	Non-applicable
Average molecular weight:	Non-applicable

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties: For complete information see the product datasheet. **Appearance:** Not available Physical state at 20 °C: Appearance: Not available Colour: Not available Odour: Not available Odour threshold: Non-applicable * Volatility: Boiling point at atmospheric pressure: Non-applicable * Vapour pressure at 20 °C: Non-applicable * Vapour pressure at 50 °C: Non-applicable * Non-applicable * Evaporation rate at 20 °C: **Product description:** Density at 20 °C: 1036,9 kg/m³ Relative density at 20 °C: 1,037 Dynamic viscosity at 20 °C: Non-applicable * Kinematic viscosity at 20 °C: Non-applicable * Kinematic viscosity at 40 °C: Non-applicable * Non-applicable * Concentration: *Not relevant due to the nature of the product, not providing information property of its hazards. - CONTINUED ON NEXT PAGE -



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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIE	ES (continued)
pH:	Non-applicable *
Vapour density at 20 °C:	Non-applicable *
Partition coefficient n-octanol/water 20 °C:	Non-applicable *
Solubility in water at 20 °C:	Non-applicable *
Solubility properties:	Non-applicable *
Decomposition temperature:	Non-applicable *
Melting point/freezing point:	Non-applicable *
Explosive properties:	Non-applicable *
Oxidising properties:	Non-applicable *
Flammability:	
Flash Point:	Non-applicable
Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	Non-applicable *
Lower flammability limit:	Non-applicable *
Upper flammability limit:	Non-applicable *
Explosive:	
Lower explosive limit:	Non-applicable *
Upper explosive limit:	Non-applicable *
9.2 Other information:	
Surface tension at 20 °C:	Non-applicable *
Refraction index:	Non-applicable *
*Not relevant due to the nature of the product, not providing inf	ormation property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

10.2 Chemical stability:

Chemically stable under the 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:

	Acids	Water	Oxidising materials	Combustible materials	Others
Avoid	strong acids	Not applicable	Avoid direct impact	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 toxicological effects:

** Changes with regards to the previous version

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ECTION 11: TOXICOLOGICAL	INFORMATION ** (cor	ntinued)			
The experimental information	related to the toxicological	properties of the	product itself is no	t available	
Dangerous health implicat	_				
In case of exposure that is re		centrations highe	r than the recomm	ended occupational ex	nosure limits
adverse effects on health may A- Ingestion (acute effect):					posure mmos,
0 ()	on available data, the classi	ification criteria an	e not met howeve	r it contains substance	s classified
as dangerous for consump	otion. For more information	see section 3.			
- Corrosivity/Irritability: and vomiting.	The consumption of a consid	derable dose can o	ause irritation in t	he throat, abdominal pa	ain, nausea
B- Inhalation (acute effect):					
	on available data, the classi		e not met. Howev	er, it contains substanc	es classified
	n. For more information see Based on available data, the		eria are not met. H	lowever, it does contai	n substances
classified as dangerous fo	r this effect. For more inforr			,	
C- Contact with the skin and					
	Produces skin inflammation. Produces eye damage after				
D- CMR effects (carcinogenic			:		
	on available data, the class			es not contain substan	ces classified
as dangerous for the effect IARC: Non-applicable	ts mentioned. For more info	ormation see secti	on 3.		
 Mutagenicity: Based or 	available data, the classific		not met, as it does	not contain substances	s classified as
	For more information see se Based on available data, the		eria are not met, a	s it does not contain su	hstances
classified as dangerous fo	r this effect. For more inform				botaneeb
E- Sensitizing effects:					
	available data, the classifica geffects. For more informat		ot met, as it does r	ot contain substances	classified as
 Cutaneous: Based on a 	vailable data, the classificat	ion criteria are no	t met, as it does no	ot contain substances c	classified as
dangerous for this effect. F- Specific target organ toxic	For more information see se				
			r it contains subst	anaca dessified as day	anna tar
inhalation. For more inform	he classification criteria are nation see section 3.	not met. Howeve	r, it contains subst	ances classified as dan	gerous for
G- Specific target organ toxic	ity (STOT)-repeated exposu	ure:			
	xicity (STOT)-repeated exp				e not met, as
	nces classified as dangerous e data, the classification cri				ed as
dangerous for this effect.	For more information see se				
H- Aspiration hazard:					
Based on available data, t this effect. For more infor	he classification criteria are	not met, as it doe	s not contain subs	tances classified as dar	ngerous for
Other information:					
Non-applicable					
Specific toxicology inform	ation on the substances	:			
	Identification		Acut	e toxicity	Genus
Sodium dodecyl sulphate (powder)			LD50 oral	1200 mg/kg	Rat
CAS: 151-21-3			LD50 dermal	>2000 mg/kg	
EC: 205-788-1			LC50 inhalation	1,5 mg/L (4 h) (ATEi)	
sodium hydroxide CAS: 1310-73-2			LD50 oral LD50 dermal	>2000 mg/kg >2000 mg/kg	
EC: 215-185-5			LC50 inhalation	>5 mg/L	
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	Identification		Acute toxicity	Species	Genus
	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	Non-applicable		
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 fails to meet PBT/vPvB criteria				
4.2.6	Other adverse effects:				
12.6					

** 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	Non dangerous

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

Non-applicable

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. 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 2019 and RID 2019:

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SECTION 14: TRANSPORT INFORMATION (continued) 14.1 UN number: Non-applicable 14.2 UN proper shipping name: Non-applicable 14.3 Transport hazard class(es): Non-applicable 14.4 Packing group: Non-applicable 14.5 Environmental hazards: Non-applicable 14.6 Special precautions for user Special regulations: Transport in bulk according to Annex II of Marpol and the IBC Code: Non-applicable 14.7 Transport of dangerous goods by sea: Non-applicable With regard to IMOG 39-18: Non-applicable 14.3 Transport hazard class(es): Non-applicable 14.4 Packing group: Non-applicable 14.3 UN proper shipping name: Non-applicable 14.4 Packing group: Non-applicable 14.5 Environmental hazards: Non-applicable 14.5 Environmental hazards: No 14.6 Special regulations: Non-applicable 14.7 Transport hazard class(es): Non-applicable 14.6 Special regulations: Non-applicable	Date of compilation:	12/08/2020 Revised: 28/0	09/2020 Version: 2 (Replaced 1)
14.2 UN proper shipping name: Labels: Non-applicable 14.3 Transport hazard class(es): Labels: Non-applicable 14.4 Packing group: Non-applicable 14.5 Environmental hazards: Non-applicable 14.6 Special regulations: Non-applicable Transport restriction code: Non-applicable Physico-Chemical properties: see section 9 Limited quantities: Non-applicable 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code: Non-applicable 14.1 UN number: Non-applicable 14.2 UN proper shipping name: Non-applicable 14.3 Transport namental hazards: Non-applicable 14.4 Packing group: Non-applicable 14.5 Environmental hazards: Non-applicable 14.4 Packing group: Non-applicable 14.5 Environmental hazards: Non-applicable 14.6 Special regulations: Non-applicable 14.5 Environmental hazards: Non-applicable 14.6 Special regulations: Non-applicable 14	SECTION 14: 7	RANSPORT INFORMATION (continued)
Labels: Non-applicable 14.4 Packing group: Non-applicable 14.5 Environmental hazards: Non-applicable 14.6 Special precautions for user Non-applicable Special requilations: Non-applicable Tunnel restriction code: Non-applicable Physico-Chemical properties: Non-applicable Limited quantities: Non-applicable Tansport in bulk according Non-applicable Non-applicable Non-applicable Vith regard to IMDG 39-18: Non-applicable 14.1 UN number: Non-applicable 14.2 UN proper shipping name: Non-applicable Non-applicable Non-applicable 14.3 Transport hazard class(es): Non-applicable 14.4 Packing group: Non-applicable 14.5 Environmental hazards: Non-applicable 14.5 Environmental hazards: Non-applicable 14.5 Special requations: Non-applicable 14.6 Special requations: Non-applicable 14.7 Transport in bulk according to Non-applicable Non-applicable			
14.4 Packing group: Non-applicable 14.5 Environmental hazards: No 14.5 Special regulations: Non-applicable Tunnel restriction code: Non-applicable Physico-Chemical properties: see section 9 Limited quantities: Non-applicable 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code: Transport of Jangerous goods by sea: Non-applicable With regard to IMDG 39-18: Non-applicable 14.3 Transport hazard class(es): Non-applicable Labels: Non-applicable 14.4 Packing group: Non-applicable 14.5 Environmental hazards: Non-applicable 14.6 Special precautions for user Non-applicable Special regulations: Non-applicable Non-applicable 14.4 Packing group: Non-applicable Non-applicable 14.5 Special regulations: Non-applicable Non-applicable 14.6 Special properties: see section 9 Non-applicable Limited quantities: Non-applicable Non-applicable 14.7 <th>14.3</th> <th></th> <th></th>	14.3		
14.6Special precautions for user Special regulations: Tunnel restriction code: Non-applicable Physico-Chemical properties: Limited quantities: Non-applicable Non-applicable Non-applicable Non-applicable Non-applicable Non-applicable Non-applicable 	14.4		
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SECTION 15: REGULATORY INFORMATION

15.1	Safet	y, health a	and envir	onmental	regulations/	legislation spe	cific for the substance	or mixture:

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

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

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

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

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

- CONTINUED ON NEXT PAGE -

This SDS is an English translation of Regulation (EU) nº 2015/830, without any country-specific legislation

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Date of compilation: 12/08/2020 Revised: 28/09/2020

Version: 2 (Replaced 1)

SECTION 15: REGULATORY INFORMATION (continued)

Seveso III:

Non-applicable

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

Non-applicable

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 (Regulation (EC) No 2015/830).

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

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

New declared substances

sodium hydroxide (1310-73-2)

Texts of the legislative phrases mentioned in section 2:

H315: Causes skin irritation

H319: Causes serious eye irritation

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:

Acute Tox. 4: H302+H332 - Harmful if swallowed or if inhaled

Eye Dam. 1: H318 - Causes serious eye damage

Flam. Sol. 2: H228 - Flammable solid

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

Advice related to training:

Minimal 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: 5-day biochemical oxygen demand BCF: Bioconcentration factor

LD50: Lethal Dose 50 LC50: Lethal Concentration 50

EC50: Effective concentration 50

Log-POW: Octanol-water partition coefficient Koc: Partition coefficient of organic carbon

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Version: 2 (Replaced 1)

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.



MB050 - Buffer M3

.1			
	Product identifier: M	B050 - Buffer	r M3
	Po	otassium acet	tate
	CAS: 12	27-08-2	
	EC: 20)4-822-2	
	Index: No	on-applicable	2
	REACH: 01	-211948697	5-16-XXXX
1.2	Relevant identified us	ses of the s	ubstance or mixture and uses advised against:
	Relevant uses: Laborator	ry. For profe	ssional user only.
	Uses advised against: Al	l uses not sp	ecified in this section or in section 7.3
1.3	Details of the supplier	r of the safe	ety data sheet:
	NZYTech Estrada do Paco do Lumi 1649-038 Lisboa - Lisboa info@nzytech.com www.nzytech.com		do Lumiar - Edif. E, r/c
1.4	Emergency telephone		+351 213 643 514 Local time: Monday to Friday 9.00 am to 18.00 National Poison Information Centre (Europe UK): +44 0845 4647 (this service is only available to health professionals)

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 Met. Corr. 1: Corrosive to metals, Category 1, H290 Skin Irrit. 2: Skin irritation, Category 2, H315 STOT SE 3: Respiratory tract toxicity, single exposure, Category 3, H335

2.2 Label elements:

CLP Regulation (EC) No 1272/2008:

Warning



Hazard statements:

Eye Irrit. 2: H319 - Causes serious eye irritation Met. Corr. 1: H290 - May be corrosive to metals Skin Irrit. 2: H315 - Causes skin irritation STOT SE 3: H335 - May cause respiratory irritation

Precautionary statements:

P234: Keep only in original packaging P271: Use only outdoors or in a well-ventilated area P280: Wear protective gloves/protective clothing/eye protection/face protection P302+P352: IF ON SKIN: Wash with plenty of water P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position 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 P403+P233: Store in a well-ventilated place. Keep container tightly closed P501: Dispose of contents/container in accordance with regulations on hazardous waste or packaging and packaging waste respectively



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SECTION 2: HAZARDS IDENTIFICATION (continued)

Substances that contribute to the classification

Potassium acetate (CAS: 127-08-2)

2.3 Other hazards:

Product fails to meet PBT/vPvB criteria

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Chemical description: Mixture of substances

Components:

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

	Identification		Chemical name/Classification C			
CAS:		Potassium acetate ⁽¹⁾		Self-classified		
EC: Index: REACH:	204-822-2 Non-applicable 01-2119486975-16- XXXX	Regulation 1272/2008	Eye Irrit. 2: H319; Skin Irrit. 2: H315; STOT SE 3: H335 - Warning	()	25 - <50 %	
	64-19-7	Acetic acid ⁽¹⁾		Self-classified		
EC: 200-580-7 Index: 607-002-00-6 REACH: 01-2119475328-30- XXXX		Regulation 1272/2008	Flam. Liq. 3: H226; Met. Corr. 1: H290; Skin Corr. 1A: H314 - Danger		10 - <25 %	

(1) Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2015/830

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

3.2 Mixture:

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:

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

By eye contact:

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

By ingestion/aspiration:

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

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

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

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



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SECTION 4: FIRST AID MEASURES (continued)

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

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

5.2 Special hazards arising from the substance or mixture:

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

5.3 Advice for firefighters:

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

Additional provisions:

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

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. Destroy 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.

6.2 Environmental precautions:

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

6.3 Methods and material for containment and cleaning up:

It is recommended:

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

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

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. Avoid splashes and pulverizations. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

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:

- 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

Identification	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 e	xposure	Long exposure	
Identification		Systemic	Local	Systemic	Local
Potassium acetate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 127-08-2	Dermal	86,14 mg/kg	Non-applicable	14,36 mg/kg	Non-applicable
EC: 204-822-2	Inhalation	1265,65 mg/m ³	Non-applicable	1265,65 mg/m ³	Non-applicable
Acetic acid	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 64-19-7	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 200-580-7	Inhalation	Non-applicable	25 mg/m ³	Non-applicable	25 mg/m ³

DNEL (General population):

		Short e	xposure	Long exposure	
Identification		Systemic	Local	Systemic	Local
Potassium acetate	Oral	43,07 mg/kg	Non-applicable	6 mg/kg	Non-applicable
CAS: 127-08-2	Dermal	43,07 mg/kg	Non-applicable	7,18 mg/kg	Non-applicable
EC: 204-822-2	Inhalation	624,2 mg/m ³	Non-applicable	624,2 mg/m ³	Non-applicable
Acetic acid	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 64-19-7	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 200-580-7	Inhalation	Non-applicable	25 mg/m ³	Non-applicable	25 mg/m ³

PNEC:

Identification				
Potassium acetate	STP	862 mg/L	Fresh water	0,46 mg/L
CAS: 127-08-2	Soil	0,00185 mg/kg	Marine water	0,046 mg/L
EC: 204-822-2	Intermittent	Non-applicable	Sediment (Fresh water)	0,00185 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,000185 mg/kg
Acetic acid	STP	85 mg/L	Fresh water	3,058 mg/L
CAS: 64-19-7	Soil	0,47 mg/kg	Marine water	0,3058 mg/L
EC: 200-580-7	Intermittent	30,58 mg/L	Sediment (Fresh water)	11,36 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	1.136 ma/ka

8.2 Exposure controls:

A.- General security and hygiene measures in the work place



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ION	8: EXPOSURE	CONTROLS/	PERSON	AL PROTECT	ION (continued)		
r c ii <i>A</i> a	narking>> in acc cleaning, mainter nformation see s	cordance with I nance, class of ubsection 7.1. ontained herein o whether the c	Directive 89 protection, is a recom	9/686/EC. For) consult the mendation wh	more ir inform ich nee	formation on Perse lation leaflet provided ads some specificat	onal Pro	;, with the corresponding < <ce otective Equipment (storage, use, the manufacturer. For more m the labour risk prevention servic</ce
Γ	Pictogram	PPE		Labelling		CEN Standard		Remarks
	Mandatory respiratory tract protection	Filter mask for vapou	rs		EN	405:2001+A1:2009	c	place when there is a taste or smell of the ontaminant inside the face mask. If the contaminant comes with warnings it is commended to use isolation equipment.
C S	Specific protection	n for the hands	5					
L	Pictogram	PPE		Labelling		CEN Standard		Remarks
	Mandatory hand protection	Protective glov minor ri		CATI			prolo	ce gloves in case of any sign of damage. I nged periods of exposure to the product f sional users/industrials, we recommend us gloves in line with standards EN 420:200 A1:2009 and EN ISO 374-1:2016
D (Dcular and facial	protection						
	Pictogram	PPE		Labelling		CEN Standard		Remarks
	Mandatory face protection	Panoramic glass splash/proje			E	EN 166:2001 N ISO 4007:2018		daily and disinfect periodically according nanufacturer´s instructions. Use if there is risk of splashing.
E E	Body protection	•						
ſ	Pictogram	PPE		Labelling		CEN Standard		Remarks
		Work clot	hing	CATI			perio recom	ce before any evidence of deterioration. F ds of prolonged exposure to the product f professional/industrial users CE III is imended, in accordance with the regulatic ISO 6529:2013, EN ISO 6530:2005, EN IS 13688:2013, EN 464:1994.
		Anti-slip wor	k shoes		El	N ISO 20347:2012	perio recom	ce before any evidence of deterioration. F ds of prolonged exposure to the product f professional/industrial users CE III is mended, in accordance with the regulatic EN ISO 20345:2012 y EN 13832-1:2007
F /	Additional emerge	ency measures						
	Emergency mea	asure	St	andards		Emergency meas	ure	Standards
	Emergency sho			5I Z358-1 11, ISO 3864-4:2()11	Eyewash station	าร	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
Env	age of both the p	he community l product and its pmpounds:	egislation container.	For additional	informa	ition see subsectio		mmended to avoid environmental
spilla Vola	-	ive 2010/75/El	J, this proc	Juct has the to	novvinia			
spilla Vola With	regard to Direct	ive 2010/75/El			liowing			
spilla Vola With	-		20 %	weight kg/m ³ (228,7	-			



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Average molecular weight:

60,05 g/mol

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1	Information on basic physical and chemical properties:					
	For complete information see the product datasheet.					
	Appearance:					
	Physical state at 20 °C:	Not available				
	Appearance:	Not available				
	Colour:	Not available				
	Odour:	Not available				
	Odour threshold:	Non-applicable *				
	Volatility:					
	Boiling point at atmospheric pressure:	Non-applicable *				
	Vapour pressure at 20 °C:	Non-applicable *				
	Vapour pressure at 50 °C:	Non-applicable *				
	Evaporation rate at 20 °C:	Non-applicable *				
	Product description:					
	Density at 20 °C:	1143,5 kg/m³				
	Relative density at 20 °C:	1,143				
	Dynamic viscosity at 20 °C:	Non-applicable *				
	Kinematic viscosity at 20 °C:	Non-applicable *				
	Kinematic viscosity at 40 °C:	Non-applicable *				
	Concentration:	Non-applicable *				
	pH:	Non-applicable *				
	Vapour density at 20 °C:	Non-applicable *				
	Partition coefficient n-octanol/water 20 °C:	Non-applicable *				
	Solubility in water at 20 °C:	Non-applicable *				
	Solubility properties:	Non-applicable *				
	Decomposition temperature:	Non-applicable *				
	Melting point/freezing point:	Non-applicable *				
	Explosive properties:	Non-applicable *				
	Oxidising properties:	Non-applicable *				
	Flammability:					
	Flash Point:	Non-applicable				
	Flammability (solid, gas):	Non-applicable *				
	Autoignition temperature:	427 °C				
	Lower flammability limit:	Non-applicable *				
	Upper flammability limit:	Non-applicable *				
	Explosive:					
	Lower explosive limit:	Non-applicable *				
	Upper explosive limit:	Non-applicable *				
9.2	Other information:					
	*Not relevant due to the nature of the product, not providing infor	mation property of its hazards.				



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SECTION 9: PHYSICAL AND CHEMIC	LAL PROPERTIES (continued)
Surface tension at 20 °C:	Non-applicable *
Refraction index:	Non-applicable *

*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.

10.2 Chemical stability:

Chemically stable under the 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	Precaution	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 toxicological effects:

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, as it does not contain 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 dangerous for inhalation. For more information see section 3.
 - Corrosivity/Irritability: Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.
- 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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IOI	11: TOXICOLOGICAL INFORMATION (continued)				
E-	 Carcinogenicity: Based on available data, the classification criteria ar as dangerous for the effects mentioned. For more information see secti IARC: Non-applicable Mutagenicity: Based on available data, the classification criteria are r dangerous for this effect. For more information see section 3. Reproductive toxicity: Based on available data, the classification criteric classified as dangerous for this effect. For more information see section Sensitizing effects: 	on 3. not met, as it do eria are not met,	oes not contain substand	ces classified a	
 Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified dangerous with sensitising effects. For more information see section 3. Cutaneous: Based on available data, the classification criteria are not met, as it does not contain substances classified a dangerous for this effect. For more information see section 3. Specific target organ toxicity (STOT) - single exposure: 					
	Causes irritation in respiratory passages, which is normally reversible an	nd limited to the	e upper respiratory pass	ages.	
G-	G- Specific target organ toxicity (STOT)-repeated exposure:				
H-	 Specific target organ toxicity (STOT)-repeated exposure: Based on a it does not contain substances classified as dangerous for this effect. Fo Skin: Based on available data, the classification criteria are not met, dangerous for this effect. For more information see section 3. Aspiration hazard: 	or more informa	tion see section 3.		
Ot	Based on available data, the classification criteria are not met, as it doe this effect. For more information see section 3. her information:	es not contain su	ubstances classified as d	angerous for	
No	n-applicable				
	ecific toxicology information on the substances:				
	Identification	ŀ	Acute toxicity	Genus	
Ac	etic acid	LD50 oral	>2000 mg/kg		
	S+ 64-19-7	LD50 dermal	>2000 ma/ka		

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 (4 h)	
Potassium acetate	LD50 oral	3250 mg/kg	Rat
CAS: 127-08-2	LD50 dermal	>2000 mg/kg	
EC: 204-822-2	LC50 inhalation	>5 mg/L (4 h)	

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

Identification	Acute toxicity		Species	Genus
Acetic acid	LC50	75 mg/L (96 h)	Lepomis macrochirus	Fish
CAS: 64-19-7	EC50	47 mg/L (24 h)	Daphnia magna	Crustacean
EC: 200-580-7	EC50	Non-applicable		

12.2 Persistence and degradability:

Identification	Degradability		Biodegradability	
Acetic acid	BOD5	Non-applicable	Concentration	100 mg/L
CAS: 64-19-7	COD	Non-applicable	Period	14 days
EC: 200-580-7	BOD5/COD	Non-applicable	% Biodegradable	74 %

12.3 Bioaccumulative potential:

Identification	Bio	accumulation potential
Acetic acid	BCF	3
CAS: 64-19-7	Pow Log	-0.71
EC: 200-580-7	Potential	Low



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SECTION 12: ECOLOGICAL INFORMATION (continued)

12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
Acetic acid	Кос	Non-applicable	Henry	Non-applicable
CAS: 64-19-7	Conclusion	Non-applicable	Dry soil	Non-applicable
EC: 200-580-7	Surface tension	2,699E-2 N/m (25 °C)	Moist soil	Non-applicable

12.5 Results of PBT and vPvB assessment: Product fails to meet PBT/vPvB criteria

12.6 Other adverse effects:

Not described

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		Dangerous	

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

HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity, 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-dangerous residue. We do not recommended disposal down the drain. See paragraph 6.2.

Regulations related to waste management:

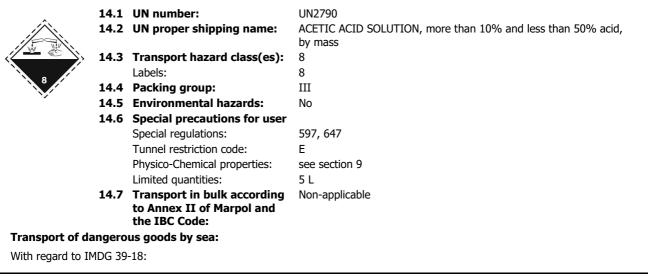
In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

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 2019 and RID 2019:





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SECTION 14: TRANSPO	RT INFORMATION (continued)	
	4.1 UN number: 4.2 UN proper shipping name:	UN2790 ACETIC ACID SOLUTION, more than 10% and less than 50% acid, by mass
	4.3 Transport hazard class(es):	8
	Labels: 4.4 Packing group:	8 111
	4.5 Environmental hazards:	No
	4.6 Special precautions for user	
	Special regulations:	Non-applicable
	EmS Codes:	F-A, S-B
	Physico-Chemical properties:	see section 9
	Limited quantities:	5 L
	Segregation group:	SGG1
1	4.7 Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicable
Transport of dan	gerous goods by air:	
With regard to IATA	A/ICAO 2020:	
1	4.1 UN number:	UN2790
	4.2 UN proper shipping name:	ACETIC ACID SOLUTION, more than 10% and less than 50% acid, by mass
1	4.3 Transport hazard class(es):	8
	Labels:	8
	4.4 Packing group:	III
-	4.5 Environmental hazards:	No
1	4.6 Special precautions for user Physico-Chemical properties:	see section 9
1	4.7 Transport in bulk according	Non-applicable
	to Annex II of Marpol and the IBC Code:	

SECTION 15: REGULATORY INFORMATION

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

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

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

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

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

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

Seveso III:

Non-applicable

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

Non-applicable

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:



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SECTION 15: REGULATORY INFORMATION (continued)

The supplier has not carried out evaluation of chemical safety.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

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 (Regulation (EC) No 2015/830)

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

Texts of the legislative phrases mentioned in section 2:

H290: May be corrosive to metals

H315: Causes skin irritation

H335: May cause respiratory irritation

H319: Causes serious eye irritation

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:

Eye Irrit. 2: H319 - Causes serious eye irritation Flam. Liq. 3: H226 - Flammable liquid and vapour 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

Advice related to training:

Minimal 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: 5-day biochemical oxygen demand

BCF: Bioconcentration factor

LD50: Lethal Dose 50

LC50: Lethal Concentration 50

EC50: Effective concentration 50

Log-POW: Octanol-water partition coefficient

Koc: Partition coefficient of organic carbon

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.





MB050 - RNase A

Date of	compilation: 12/08/202	20 Version: 1	
SECT	FION 1: IDENTIFIC	ATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING	
1.1	Product identifier:	MB050 - RNase A	
		Nuclease, ribo-	
	CAS:	9001-99-4	
	EC:	232-646-6	
	Index:	Non-applicable	
	REACH:	Non-applicable	
1.2	Relevant identified	d uses of the substance or mixture and uses advised against:	
Relevant uses: Laboratory. For professional user only.			
	Uses advised against	t: All uses not specified in this section or in section 7.3	
1.3	Details of the supp	plier of the safety data sheet:	
	NZYTech Estrada do Paco do Lumiar Campus do Lumiar - Edif. E, r/c 1649-038 Lisboa - Lisboa - Portugal info@nzytech.com www.nzytech.com		
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.

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

2.2 Label elements:

CLP Regulation (EC) No 1272/2008:

Danger



Hazard statements:

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

Precautionary statements:

P261: Avoid breathing dust/fume/gas/mist/vapours/spray

P284: Wear respiratory protection

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position 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 fails to meet PBT/vPvB criteria

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Chemical description: Organic substance Components:



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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		Concentration
	Nuclease, ribo-		Self-classified	
EC: 232-646-6 Index: Non-applicable REACH: Non-applicable	Regulation 1272/2008	Resp. Sens. 1: H334 - Danger	\$	100 %

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

3.2 Mixture:

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.

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

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

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

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

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

5.2 Special hazards arising from the substance or mixture:

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

5.3 Advice for firefighters:

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

Additional provisions:

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



MB050 - RNase A

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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Sweep up and shovel product or collect by other means and place in container for reuse (preferred) or disposal

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:

Sweep up and shovel product or collect by other means and place in container for reuse (preferred) or disposal

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

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

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

C.- Technical recommendations to prevent ergonomic and toxicological risks

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

DNEL (Workers):

Non-applicable

DNEL (General population):

Non-applicable

PNEC:

Non-applicable

8.2 Exposure controls:

A.- General security and hygiene measures in the work place



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	8: EXPUSURE	CONTROLS/PERSC	NAL PROTECT	ION (continued)	
r c ii	marking>> in ac cleaning, mainter information see s	cordance with Directive nance, class of protecti subsection 7.1.	e 89/686/EC. For a on,) consult the	more information on Perse information leaflet provid	ipment, with the corresponding < <ce onal Protective Equipment (storage, use, ded by the manufacturer. For more</ce
a		n whether the company		ich needs some specificat leasures at its disposal.	ion from the labour risk prevention servic
D. 1	Pictogram	PPE	Labelling	CEN Standard	Remarks
	Mandatory respiratory tract protection	Filter mask for gases and vapours		EN 405:2001+A1:2009	Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment.
C 5	Specific protectio	n for the hands			
	Pictogram	PPE	Labelling	CEN Standard	Remarks
	Mandatory hand protection	Protective gloves agains minor risks	t CAT I		Replace gloves in case of any sign of damage. F prolonged periods of exposure to the product fc professional users/industrials, we recommend us CE III gloves in line with standards EN 420:2003 A1:2009 and EN ISO 374-1:2016
D (Ocular and facial	protection			
	Pictogram	PPE	Labelling	CEN Standard	Remarks
	Mandatory face protection	Panoramic glasses agains splash/projections.	t CAT II	EN 166:2001 EN ISO 4007:2018	Clean daily and disinfect periodically according t the manufacturer's instructions. Use if there is risk of splashing.
E E	Body protection				
Г	Pictogram	PPE	Labelling	CEN Standard	Remarks
	i loco gi alli				Replace before any evidence of deterioration. F
		Work clothing	CATI		professional/industrial users CE III is recommended, in accordance with the regulatio
-		Anti-slip work shoes		EN ISO 20347:2012	professional/industrial users CE III is recommended, in accordance with the regulation in EN ISO 6529:2013, EN ISO 6530:2005, EN IS 13688:2013, EN 464:1994. Replace before any evidence of deterioration. Fe periods of prolonged exposure to the product fo professional/industrial users CE III is
F 4	Additional emerg	Anti-slip work shoes		EN ISO 20347:2012	professional/industrial users CE III is recommended, in accordance with the regulation in EN ISO 6529:2013, EN ISO 6530:2005, EN IS 13688:2013, EN 464:1994. Replace before any evidence of deterioration. Fr periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulation
F 4		Anti-slip work shoes ency measures	CAT I CAT I Standards	EN ISO 20347:2012 Emergency meas	professional/industrial users CE III is recommended, in accordance with the regulatio in EN ISO 6529:2013, EN ISO 6530:2005, EN IS 13688:2013, EN 464:1994. Replace before any evidence of deterioration. Fr periods of prolonged exposure to the product fo professional/industrial users CE III is recommended, in accordance with the regulatio in EN ISO 20345:2012 y EN 13832-1:2007
F 7	Additional emerg	Anti-slip work shoes ency measures asure ISO 3864-1	Standards ANSI Z358-1 :2011, ISO 3864-4:20	Emergency meas	recommended, in accordance with the regulation in EN ISO 6529:2013, EN ISO 6530:2005, EN IS 13688:2013, EN 464:1994. Replace before any evidence of deterioration. Fr periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulation in EN ISO 20345:2012 y EN 13832-1:2007 ure Standards DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
Envi In ac spilla Vola	Additional emerg Emergency me Emergency sh ironmental exp ccordance with t age of both the p atile organic co	Anti-slip work shoes ency measures asure ISO 3864-1 ower be community legislation product and its contained product and its contained	ANSI Z358-1 :2011, ISO 3864-4:20 on for the protect er. For additional	Emergency meas D11 Eyewash station ion of the environment it information see subsection	professional/industrial users CE III is recommended, in accordance with the regulation in EN ISO 6529:2013, EN ISO 6530:2005, EN IS 13688:2013, EN 464:1994. Replace before any evidence of deterioration. Fr periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulation in EN ISO 20345:2012 y EN 13832-1:2007 ure Standards DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011 is
Envi In ac spilla Vola With	Additional emerg Emergency me Emergency sh ironmental exp ccordance with ti age of both the p atile organic co n regard to Direct	Anti-slip work shoes ency measures asure ISO 3864-1 ower bosure controls: he community legislatio product and its containe ompounds: tive 2010/75/EU, this p	ANSI Z358-1 :2011, ISO 3864-4:20 on for the protect er. For additional i roduct has the fo	Emergency meas 011 Eyewash station	professional/industrial users CE III is recommended, in accordance with the regulation in EN ISO 6529:2013, EN ISO 6530:2005, EN IS 13688:2013, EN 464:1994. Replace before any evidence of deterioration. Fr periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulation in EN ISO 20345:2012 y EN 13832-1:2007 ure Standards DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011 is
Envi In ac spilla Vola With	Additional emerg Emergency me Emergency sh ironmental exp ccordance with t age of both the p atile organic co	Anti-slip work shoes ency measures asure ISO 3864-1 ower bosure controls: he community legislatio product and its contained broduct and broduct and br	ANSI Z358-1 :2011, ISO 3864-4:20 on for the protect er. For additional	Emergency meas D11 Eyewash station ion of the environment it information see subsection	professional/industrial users CE III is recommended, in accordance with the regulation in EN ISO 6529:2013, EN ISO 6530:2005, EN IS 13688:2013, EN 464:1994. Replace before any evidence of deterioration. Fr periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulation in EN ISO 20345:2012 y EN 13832-1:2007 ure Standards DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011 is



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Average molecular weight:

Non-applicable

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

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



According to 1907/2006/EC (REACH), 2015/830/EU (THIS SDS IS JUST FOR INFORMATIVE PURPOSE. THE SDS SHALL BE SUPPLIED IN AN OFFICIAL LANGUAGE OF THE COUNTRY WHERE THE PRODUCT IS PLACED ON THE MARKET)

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Surface tension at 20 °C: Non-applicable *	
Refraction index: Non-applicable *	

*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.

10.2 Chemical stability:

Chemically stable under the 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:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Not applicable	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 toxicological effects:

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, as it does not contain substances classified as dangerous 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 dangerous 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 dangerous 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 dangerous for this effect. For more information see section 3.
- 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 dangerous 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 dangerous for this effect. For more information see section 3.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):



According to 1907/2006/EC (REACH), 2015/830/EU (THIS SDS IS JUST FOR INFORMATIVE PURPOSE. THE SDS SHALL BE SUPPLIED IN AN OFFICIAL LANGUAGE OF THE COUNTRY WHERE THE PRODUCT IS PLACED ON THE MARKET)

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CTIO	N 11: TOXICOLOGICAL INFORMATION (continued)
E-	 Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3. IARC: Non-applicable Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3. Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as classified as dangerous for this effect. For more information see section 3. Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3. Sensitizing effects:
	 Respiratory: Prolonged exposure can result in specific respiratory hypersensitivity. Cutaneous: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
F-	Specific target organ toxicity (STOT) - single exposure:
G-	Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3. 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 dangerous 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 dangerous 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 dangerous for this effect. For more information see section 3. Aspiration hazard:
	Aspiration hazard: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous fo this effect. For more information see section 3. :her information:

Non-applicable

Specific toxicology information on the substances:

Identification	Acut	te toxicity	Genus
Nuclease, ribo-	LD50 oral	>2000 mg/kg	
CAS: 9001-99-4	LD50 dermal	>2000 mg/kg	
EC: 232-646-6	LC50 inhalation	>5 mg/L	

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

Not available

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 fails to meet PBT/vPvB criteria
- 12.6 Other adverse effects:
 - Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:



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SECTI	CTION 13: DISPOSAL CONSIDERATIONS (continued)				
	Code Description		Waste class (Regulation (EU) No 1357/2014)		
	16 03 05*	organic wastes containing hazardous substances	Dangerous		

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-dangerous residue. We do not recommended disposal down the drain. 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 2019 and RID 2019:

14.1	UN number:	Non-applicable				
14.2	UN proper shipping name:	Non-applicable				
14.3	Transport hazard class(es):	Non-applicable				
-	Labels:	Non-applicable				
14.4	Packing group:	Non-applicable				
14.5	Environmental hazards:	No				
14.6	Special precautions for user					
	Special regulations:	Non-applicable				
	Tunnel restriction code:	Non-applicable				
	Physico-Chemical properties:	see section 9				
	Limited quantities:	Non-applicable				
14.7	Transport in bulk according	Non-applicable				
	to Annex II of Marpol and the IBC Code:					
Tuenene						
•	rt of dangerous goods by sea:					
With rega	rd to IMDG 39-18:					
14.1	UN number:	Non-applicable				
14.2	UN proper shipping name:	Non-applicable				
14.3	Transport hazard class(es):	Non-applicable				
	Labels:	Non-applicable				
	Packing group:	Non-applicable				
	Environmental hazards:	No				
14.6	Special precautions for user					
	Special regulations:	Non-applicable				
	EmS Codes:					
	Physico-Chemical properties:	see section 9				
	Limited quantities:	Non-applicable				
147	Segregation group:	Non-applicable				
14.7	Transport in bulk according to Annex II of Marpol and	Non-applicable				
	the IBC Code:					
Transpo	rt of dangerous goods by air:					
With rega	ird to IATA/ICAO 2020:					



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SECTION 14: 7	SECTION 14: TRANSPORT INFORMATION (continued)			
14.1	UN number:	Non-applicable		
14.2	UN proper shipping name:	Non-applicable		
14.3	Transport hazard class(es):	Non-applicable		
	Labels:	Non-applicable		
14.4	Packing group:	Non-applicable		
14.5	Environmental hazards:	No		
14.6	Special precautions for user			
	Physico-Chemical properties:	see section 9		
14.7	Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicable		

SECTION 15: REGULATORY INFORMATION

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

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

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

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

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

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

Seveso III:

Non-applicable

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

Non-applicable

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:

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 (Regulation (EC) No 2015/830)

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

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:

Minimal 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.



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SECTION 16: OTHER INFORMATION (continued)

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: 5-day biochemical oxygen demand

BCF: Bioconcentration factor LD50: Lethal Dose 50

LC50: Lethal Concentration 50

EC50: Effective concentration 50

Log-POW: Octanol-water partition coefficient

Koc: Partition coefficient of organic carbon

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.