

Adapter Buffer / Rapid Dilution Buffer

SEC	TION 1: IDENTIF	FICATION OF THE SU	UBSTANC	E/MIXTURE AND OF	THE COMPANT/UNDERTAKING	
1.1	Product identifier	r: Ao	dapter Buffe	r / Rapid Dilution Buffer		
	Other means of ic	dentification:				
	ADB, RDB					
1.2	Relevant identifie	ed uses of the substance	e or mixture	e and uses advised agai	inst:	
	Relevant uses: Re	search use only				
	Uses advised agai	inst: All uses not specified	d in this sect	ion or in section 7.3		
1.3	Details of the sup	oplier of the safety data	sheet:			
	OX4 4DQ Oxford - Phone: +44 (0)845 http://www.nanopo	Edmund Halley Road, Oxt - Oxon - England 5 034 7900 - Fax: +44 (0) pretech.com/	845 034 790	11		
1.4	Emergency telep	hone number: +44 (0)8	345 034 7900) (9am-5:30pm GMT)		
SEC	tion 2: Hazari	DS IDENTIFICATION				
SEC 2.1		DS IDENTIFICATION the substance or mixture				
		the substance or mixtur				
2.1	Classification of GB CLP Regulation The product is not	the substance or mixtur	re:	GB CLP Regulation.		
	Classification of a GB CLP Regulation The product is not Label elements:	the substance or mixtur on: t classified as hazardous	re:	GB CLP Regulation.		
2.1	Classification of a GB CLP Regulation The product is not Label elements: GB CLP Regulation	the substance or mixtur on: t classified as hazardous on:	re:	GB CLP Regulation.		
2.1	Classification of a GB CLP Regulation The product is not Label elements: GB CLP Regulation Hazard statement	the substance or mixtur on: t classified as hazardous on:	re:	GB CLP Regulation.		
2.1	Classification of a GB CLP Regulation The product is not Label elements: GB CLP Regulation Hazard statement Non-applicable	the substance or mixtur on: t classified as hazardous on: nts:	re:	GB CLP Regulation.		
2.1	Classification of a GB CLP Regulation The product is not Label elements: GB CLP Regulation Hazard statement Non-applicable Precautionary statement	the substance or mixtur on: t classified as hazardous a on: hts:	re: according to	Ŭ		
2.1	Classification of a GB CLP Regulation The product is not Label elements: GB CLP Regulation Hazard statement Non-applicable Precautionary state P101: If medical a P102: Keep out of	the substance or mixtur on: t classified as hazardous on: hts: atements: advice is needed, have pro f reach of children.	re: according to	ner or label at hand.	system in your municipality.	
2.1	Classification of a GB CLP Regulation The product is not Label elements: GB CLP Regulation Hazard statement Non-applicable Precautionary state P101: If medical a P102: Keep out of	the substance or mixtur on: t classified as hazardous on: hts: atements: advice is needed, have pro f reach of children.	re: according to	ner or label at hand.	system in your municipality.	

3.1 Substance:

Non-applicable

3.2 Mixture:

Chemical description: Aqueous solution of organic and inorganic compounds, containing surfactants, enymes and glycolethers.

Components:

None of the substances contained in the mixture are above the values fixed in Annex II of The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

Consult a doctor in case of discomfort showing the SDS for the product.

By inhalation:

In case of symptoms, move the person affected into fresh air.

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



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SEC	TION 4: FIRS1	AID MEASURES (continued)	
	By eye contac	et:		
	Rinse with wate	er until the product has been elimin	ated. In case of problems, cons	ult a doctor showing the SDS for the product.
	By ingestion/a	aspiration:		
	In case of cons	sumption in large quantities, it is rec	ommended to seek medical ass	sistance.
4.2	Most importar	nt symptoms and effects, both ac	ute and delayed:	
	Acute and dela	yed effects are indicated in section	s 2 and 11.	
4.3	Indication of a	any immediate medical attention	and special treatment needed	:
	Non-applicable			
SEC	TION 5: FIREF	FIGHTING MEASURES		
5.1	Extinguishing			
5.1	• •	media: guishing media:		
5.1	Suitable exting Product is non-t storage, handlir any type of extin	guishing media: flammable, with a low risk of fire du ng and use. In the case of the existe nguishing agent can be used (ABC	ence of sustained combustion a	stics of the product in normal conditions of s a result of improper handling, storage or use
5.1	Suitable exting Product is non-i storage, handlir any type of extin Unsuitable ext	guishing media: flammable, with a low risk of fire du ng and use. In the case of the existe	ence of sustained combustion a	
5.1	Suitable exting Product is non-istorage, handlir any type of extin Unsuitable ext Non-applicable	guishing media: flammable, with a low risk of fire du ng and use. In the case of the existe nguishing agent can be used (ABC inguishing media:	ence of sustained combustion a Powder, water,)	
	Suitable exting Product is non-t storage, handlir any type of extin Unsuitable ext Non-applicable Special hazard	guishing media: flammable, with a low risk of fire du ng and use. In the case of the existe nguishing agent can be used (ABC inguishing media: Is arising from the substance or p	ence of sustained combustion a Powder, water,) mixture:	s a result of improper handling, storage or use
	Suitable exting Product is non-t storage, handlir any type of extin Unsuitable ext Non-applicable Special hazard	guishing media: flammable, with a low risk of fire du ng and use. In the case of the existe nguishing agent can be used (ABC inguishing media: Is arising from the substance or n nflammable nature, the product doe	ence of sustained combustion a Powder, water,) mixture:	
5.2	Suitable exting Product is non-1 storage, handlir any type of extil Unsuitable ext Non-applicable Special hazard Due to its non-in Advice for fire Depending on t	guishing media: flammable, with a low risk of fire du ng and use. In the case of the existe nguishing agent can be used (ABC inguishing media: Is arising from the substance or n nflammable nature, the product doe fighters: he magnitude of the fire it may be r num emergency facilities and equipr	ence of sustained combustion a Powder, water,) mixture: es not present a fire risk under n necessary to use full protective o	s a result of improper handling, storage or use normal conditions of storage, handling and use.

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.

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:



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SEC	TION 7: HAN	DLING /	AND STORAGE (continue	ed)		
	A General pro	ecautions	s for safe use			
	Comply wit Maintain or	h the cur der, clea	rent legislation concerning the nliness and dispose of using s ndations for the prevention of	afe methods (section 6).	ks with regards manually	handling weights.
	products. C	Consult se	o transfer at a slow speed to a action 10 for conditions and ma ndations on general occupatio	aterials that should be avoid		affect flammable
	Do not eat	or drink c	luring the process, washing ha	ands afterwards with suitab	le cleaning products.	
	D Technical r	ecomme	ndations to prevent environme	ental risks		
	It is not neo	cessary to	o take special measures to pre	event environmental risks. F	or more information see	subsection 6.2
'.2	Conditions fo	r safe st	orage, including any incomp	atibilities:		
	A Technical r	neasures	for storage			
	Maximum t	ime:	12 Months			
	B General co	nditions f	or storage			
	Avoid sour	ces of he	at, radiation, static electricity a	and contact with food. For a	dditional information see	subsection 10.5
.3	Specific end u	use(s):				
	Except for the					
SEC	product.		ns already specified it is not n		ecial recommendation re	garding the uses of this
	TION 8: EXPC	DSURE		PROTECTION		garding the uses of this
	TION 8: EXPO Control paran Substances wh	DSURE neters: nose occu	CONTROLS/PERSONAL upational exposure limits have exposure limits, fourth edition,	PROTECTION	kplace:	
	TION 8: EXPO Control paran Substances wh EH40/2005 Wo	DSURE neters: nose occu	CONTROLS/PERSONAL	PROTECTION	kplace: Occupationa	Il exposure limits
	TION 8: EXPO Control paran Substances wh	DSURE neters: nose occu	CONTROLS/PERSONAL upational exposure limits have exposure limits, fourth edition,	PROTECTION	kplace:	
3.1	TION 8: EXPO Control paran Substances wh EH40/2005 Wo	DSURE neters: nose occu rkplace e	CONTROLS/PERSONAL upational exposure limits have exposure limits, fourth edition,	PROTECTION	kplace: Occupationa WEL (8h)	Il exposure limits
8.1	TION 8: EXPO Control paran Substances wh EH40/2005 Wo Glycerol CAS: 56-81-5 Exposure con	DSURE neters: nose occi orkplace e ntrols:	CONTROLS/PERSONAL upational exposure limits have exposure limits, fourth edition,	PROTECTION to be monitored in the work published 2020:	kplace: Occupationa WEL (8h)	Il exposure limits
8.1	TION 8: EXPO Control param Substances wh EH40/2005 Wo Glycerol CAS: 56-81-5 Exposure con A Individual p As a preven marking>>, protection,, information	DSURE nose occi orkplace e orkplace e ortrols: protection ntative m . For more) consu containe own whet	CONTROLS/PERSONAL upational exposure limits have exposure limits, fourth edition, Identification measures, such as personal easure it is recommended to u e information on Personal Pro- lt the information leaflet provid d herein is a recommendation her the company has additional	PROTECTION to be monitored in the work published 2020: protective equipment use basic Personal Protective tective Equipment (storage, ded by the manufacturer. For which needs some specific	kplace: Ve Equipment, with the c use, cleaning, maintena or more information see s	Il exposure limits 10 mg/m³ orresponding < <ukca ance, class of subsection 7.1. All</ukca
3.1	TION 8: EXPO Control param Substances wh EH40/2005 Wo Glycerol CAS: 56-81-5 Exposure con A Individual p As a preven marking>>. protection, information it is not kno B Respiratory	DSURE neters: nose occi orkplace e ntrols: protection ntative m . For mor) consu ornaine own wheth y protection	CONTROLS/PERSONAL upational exposure limits have exposure limits, fourth edition, Identification measures, such as personal easure it is recommended to us e information on Personal Pro- lt the information leaflet provide therein is a recommendation her the company has additionation	PROTECTION to be monitored in the work published 2020: protective equipment use basic Personal Protective tective Equipment (storage, ded by the manufacturer. For which needs some specific al measures at its disposal.	kplace: WEL (8h) WEL (15 min) Ve Equipment, with the co , use, cleaning, maintena or more information see so cation from the labour ris	orresponding < <ukca subsection 7.1. All k prevention services as</ukca
3.1	TION 8: EXPO Control param Substances wh EH40/2005 Wo Glycerol CAS: 56-81-5 Exposure con A Individual p As a preven marking>>. protection, information it is not kno B Respiratory	DSURE neters: nose occl orkplace e ortrols: protection ntative m) consu containe own whetl y protection	CONTROLS/PERSONAL upational exposure limits have exposure limits, fourth edition, Identification measures, such as personal easure it is recommended to u e information on Personal Provid dherein is a recommendation for the company has additionation on n equipment will be necessary	PROTECTION to be monitored in the work published 2020: protective equipment use basic Personal Protective tective Equipment (storage, ded by the manufacturer. For which needs some specific al measures at its disposal.	kplace: WEL (8h) WEL (15 min) Ve Equipment, with the co , use, cleaning, maintena or more information see so cation from the labour ris	orresponding < <ukca subsection 7.1. All k prevention services as</ukca
SEC 8.1 8.2	TION 8: EXPO Control param Substances wh EH40/2005 Wo Glycerol CAS: 56-81-5 Exposure con A Individual p As a preven marking>>. protection,. information it is not knc B Respiratory The use of	DSURE neters: nose occi orkplace e ntrols: protection ntative m) consu o containe own wheth y protectio protection for the containe protection	CONTROLS/PERSONAL upational exposure limits have exposure limits, fourth edition, Identification measures, such as personal easure it is recommended to u e information on Personal Provid dherein is a recommendation for the company has additionation on n equipment will be necessary	PROTECTION to be monitored in the work published 2020: protective equipment use basic Personal Protective tective Equipment (storage, ded by the manufacturer. For which needs some specific al measures at its disposal.	kplace: WEL (8h) WEL (15 min) Ve Equipment, with the co , use, cleaning, maintena or more information see so cation from the labour ris	orresponding < <ukca subsection 7.1. All k prevention services as</ukca

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	Remarks
Mandatory face protection	Panoramic glasses against splash/projections.	Clean daily and disinfect periodically according to the manufacturer´s instructions. Use if there is a risk of splashing.



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TION 8: EXPOSURE CONTROLS/PERS	ONAL PROTECTION (continued)
E Body protection	
Pictogram PPE	Remarks
Work clothing	Replace before any evidence of deterioration. For periods of prolonged expe
F Additional emergency measures	
It is not necessary to take additional emerg	ency measures.
Environmental exposure controls:	
In accordance with the community legislation for	or the protection of the environment it is recommended to avoid environmental
spillage of both the product and its container. F	or additional information see subsection 7.1.D
TION 9: PHYSICAL AND CHEMICAL PR	OPERTIES
Information on basic physical and chemical	properties:
For complete information see the product datas	sheet.
Appearance:	
Physical state at 20 °C:	Liquid
Appearance:	Colorless
Colour:	Colourless
Odour:	Odourless
Odour threshold:	Non-applicable *
Volatility:	
Boiling point at atmospheric pressure:	100 °C
Vapour pressure at 20 ºC:	2350 Pa
Vapour pressure at 50 °C:	12381.01 Pa (12.38 kPa)
Evaporation rate at 20 °C:	Non-applicable *
Product description:	
Density at 20 °C:	1143.9 kg/m³
Relative density at 20 °C:	1.144
Dynamic viscosity at 20 °C:	744.59 cP
Kinematic viscosity at 20 °C:	650.91 mm²/s
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:	Completely miscible
Decomposition temperature:	Non-applicable *
Melting point/freezing point:	Non-applicable *
Flammability:	
Flash Point:	Non Flammable (>60 °C)
Flammability (solid, gas):	Non-applicable *

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SEC	TION 9: PHYS	ICAL AND CHEMICAL PROPER	RTIES (continued)	
	Lower flammab	ility limit:	Non-applicable *	
	Upper flammab	ility limit:	Non-applicable *	
	Particle charac	cteristics:		
	Median equival	ent diameter:	Non-applicable	
9.2	Other informat	tion:		
	Information wi	th regard to physical hazard classes	5:	
	Explosive prope	erties:	Non-applicable *	
	Oxidising prope	erties:	Non-applicable *	
	Corrosive to me	etals:	Non-applicable *	
	Heat of combus	stion:	Non-applicable *	
	Aerosols-total p components:	ercentage (by mass) of flammable	Non-applicable *	
	Other safety c	haracteristics:		
	Surface tension	at 20 °C:	Non-applicable *	
	Refraction inde	x:	Non-applicable *	
	*Not relevant due t	o the nature of the product, not providing inform	nation 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 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:

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, carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

LD50 oral > 2000 mg/kg (rat)

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
- Corrosivity/Irritability: Based on available data, the classification criteria are not met



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TION 11: TOXIC	OLOGICAL INFORMATION ((continued)	
B- Inhalation (acu	ute effect):		
 Corrosivity/ 	ty :Based on available data, the c Irritability: Based on available data, he skin and the eyes (acute effect):	the classification criteria are	
 Contact with 	h the skin: Based on available data h the eyes: Based on available data carcinogenicity, mutagenicity and to	a, the classification criteria are	
IARC: Non-a - Mutagenicit	y: Based on available data, the claster to a set on available data ve toxicity: Based on available data	ssification criteria are not met	
- Skin: Based	: Based on available data, the class d on available data, the classificatio t organ toxicity (STOT) - single exp	n criteria are not met	
Based on avai	ilable data, the classification criteria	a are not met	
G- Specific target	t organ toxicity (STOT)-repeated ex	posure:	
- Skin: Based hazardous for H- Aspiration haz	d on available data, the classification this effect. For more information set	n criteria are not met, as it do ee section 3.	e data, the classification criteria are not m es not contain substances classified as
Other informatio		are not met	
	n:		
Non-applicable			
Specific toxicolo	gy information on the substance	s:	
Not available			
Acute Toxicity F	stimate (ATE mix):		
	ATE mix		Ingredient(s) of unknown toxicity
Oral	>5000 mg/kg (Calc	ulation method)	Non-applicable
Dermal	>5000 mg/kg (Calc		Non-applicable
		culation method)	Non-applicable

ECOLOGICAL INFORMATIO

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

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



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SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Code	Description	Waste class
16 05 09	discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08	Non dangerous

Type of waste:

Non-applicable

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance The Waste Regulations 2011, 2011 No. 988. As under 15 01 of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of UK REACH the provisions related to waste management are stated:

UK legislation: The Waste Regulations 2011.

SECTION 14: TRANSPORT INFORMATION

Other information:

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID). Transport of dangerous goods by land:

With regard to ADR 2021 and RID 2021:

marroge		
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	
	Tunnel restriction code:	Non-applicable
	Physico-Chemical properties:	see section 9
14.7	Transport in bulk according to	Non-applicable
	Annex II of Marpol and the IBC	
	Code:	
Transpor	t of dangerous goods by sea:	
With rega	rd to IMDG 40-20:	
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	Marine pollutant:	No
14.6	Special precautions for user	
	Special regulations:	Non-applicable
	EmS Codes:	
	Physico-Chemical properties:	see section 9
	Limited quantities:	Non-applicable
	Segregation group:	Non-applicable
14.7	Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicable
Transpor	t of dangerous goods by air:	
\A/:+I	rd to IATA/ICAO 2023	

With regard to IATA/ICAO 2023:

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SECTION 14:	TRANSPORT INFORMATION	l (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:	SECTION 15: REGULATORY INFORMATION					
15.1 Safety, he	ealth and environmental regulation	ons/legislation s	pecific for the su	ubstance or mixture:		
- Substand	ces listed in UK candidate list of su	bstances of very	high concern (SV	HCs): Non-applicable		

- Substances listed in UK REACH Authorisation List (Annex 14): Non-applicable

Restrictions to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII UK 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 REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2020.

Control of Substances Hazardous to Health Regulations 2002 (as amended)

EH40/2005 Workplace exposure limits.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

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

GB CLP Regulation:

Non-applicable

Classification procedure:

Non-applicable

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:



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SECTION 16: OTH	IER INFORMATION (continued)			
IMDG: Internation IATA: Internation ICAO: Internation COD: Chemical BOD5: 5day bion BCF: Bioconcel LD50: Lethal D LC50: Lethal D LC50: Effective LogPOW: Octal Koc: Partition of UFI: unique for	ose 50 concentration 50 e concentration 50 anolwater partition coefficient coefficient of organic carbon	Il carriage of dangerous goo	ıds by road	

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at UK, 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.

- END OF SAFETY DATA SHEET -

Revised: 27/05/2022



AMPure XP Beads / SPRI Beads

inting	19/06/2023 Date of compilation: 24/01/2022 Version: 1
SEC	TION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1	Product identifier: AMPure XP Beads / SPRI Beads
	Other means of identification: VXP, AXP, SPRI
1.2	Relevant identified uses of the substance or mixture and uses advised against:
	Relevant uses: Research use 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:
	Oxford Nanopore Technologies Gosling Building, Edmund Halley Road, Oxford Science Park OX4 4DQ Oxford - Oxon - England
	Phone: +44 (0)845 034 7900 - Fax: +44 (0)845 034 7901
1.4 SEC	Phone: +44 (0)845 034 7900 - Fax: +44 (0)845 034 7901 http://www.nanoporetech.com/ Emergency telephone number: +44 (0)845 034 7900 (9am-5:30pm GMT)
	Phone: +44 (0)845 034 7900 - Fax: +44 (0)845 034 7901 http://www.nanoporetech.com/ Emergency telephone number: +44 (0)845 034 7900 (9am-5:30pm GMT)
SEC	Phone: +44 (0)845 034 7900 - Fax: +44 (0)845 034 7901 http://www.nanoporetech.com/ Emergency telephone number: +44 (0)845 034 7900 (9am-5:30pm GMT) TION 2: HAZARDS IDENTIFICATION
SEC	Phone: +44 (0)845 034 7900 - Fax: +44 (0)845 034 7901 http://www.nanoporetech.com/ Emergency telephone number: +44 (0)845 034 7900 (9am-5:30pm GMT) TION 2: HAZARDS IDENTIFICATION Classification of the substance or mixture:
SEC	Phone: +44 (0)845 034 7900 - Fax: +44 (0)845 034 7901 http://www.nanoporetech.com/ Emergency telephone number: +44 (0)845 034 7900 (9am-5:30pm GMT) TION 2: HAZARDS IDENTIFICATION Classification of the substance or mixture: GB CLP Regulation:
SEC 2.1	Phone: +44 (0)845 034 7900 - Fax: +44 (0)845 034 7901 http://www.nanoporetech.com/ Emergency telephone number: +44 (0)845 034 7900 (9am-5:30pm GMT) TION 2: HAZARDS IDENTIFICATION Classification of the substance or mixture: GB CLP Regulation: The product is not classified as hazardous according to GB CLP Regulation.
SEC 2.1	Phone: +44 (0)845 034 7900 - Fax: +44 (0)845 034 7901 http://www.nanoporetech.com/ Emergency telephone number: +44 (0)845 034 7900 (9am-5:30pm GMT) TION 2: HAZARDS IDENTIFICATION Classification of the substance or mixture: GB CLP Regulation: The product is not classified as hazardous according to GB CLP Regulation. Label elements:
SEC 2.1	Phone: +44 (0)845 034 7900 - Fax: +44 (0)845 034 7901 http://www.nanoporetech.com/ Emergency telephone number: +44 (0)845 034 7900 (9am-5:30pm GMT) TION 2: HAZARDS IDENTIFICATION Classification of the substance or mixture: GB CLP Regulation: The product is not classified as hazardous according to GB CLP Regulation. Label elements: GB CLP Regulation:
SEC 2.1	Phone: +44 (0)845 034 7900 - Fax: +44 (0)845 034 7901 http://www.nanoporetech.com/ Emergency telephone number: +44 (0)845 034 7900 (9am-5:30pm GMT) TION 2: HAZARDS IDENTIFICATION Classification of the substance or mixture: GB CLP Regulation: The product is not classified as hazardous according to GB CLP Regulation. Label elements: GB CLP Regulation: Hazard statements:
SEC 2.1	Phone: +44 (0)845 034 7900 - Fax: +44 (0)845 034 7901 http://www.nanoporetech.com/ Emergency telephone number: +44 (0)845 034 7900 (9am-5:30pm GMT) TION 2: HAZARDS IDENTIFICATION Classification of the substance or mixture: GB CLP Regulation: The product is not classified as hazardous according to GB CLP Regulation. Label elements: GB CLP Regulation: Hazard statements: Non-applicable Precautionary statements: P101: If medical advice is needed, have product container or label at hand. P102: Keep out of reach of children.
SEC 2.1	Phone: +44 (0)845 034 7900 - Fax: +44 (0)845 034 7901 http://www.nanoporetech.com/ Emergency telephone number: +44 (0)845 034 7900 (9am-5:30pm GMT) TION 2: HAZARDS IDENTIFICATION Classification of the substance or mixture: GB CLP Regulation: The product is not classified as hazardous according to GB CLP Regulation. Label elements: GB CLP Regulation: Hazard statements: Non-applicable Precautionary statements: P101: If medical advice is needed, have product container or label at hand.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Non-applicable

3.2 Mixture:

Chemical description: Aqueous solution of organic and inorganic compounds, containing surfactants, enymes and glycolethers.

Components:

None of the substances contained in the mixture are above the values fixed in Annex II of The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

Consult a doctor in case of discomfort showing the SDS for the product.

By inhalation:

In case of symptoms, move the person affected into fresh air.

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



Printing: 19/06/2023 Date of compilation: 24/01/2022 Version: 1 SECTION 4: FIRST AID MEASURES (continued) By eye contact: Rinse with water until the product has been eliminated. In case of problems, consult a doctor showing the SDS for the product. By ingestion/aspiration: In case of consumption in large quantities, it is recommended to seek medical assistance. 4.2 Most important symptoms and effects, both acute and delayed: Acute and delayed effects are indicated in sections 2 and 11. 4.3 Indication of any immediate medical attention and special treatment needed:

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

Product is non-flammable, with a low risk of fire due to the flammability characteristics of the product in normal conditions of storage, handling and use. In the case of the existence of sustained combustion as a result of improper handling, storage or use any type of extinguishing agent can be used (ABC Powder, water,...)

Unsuitable extinguishing media:

Non-applicable

5.2 Special hazards arising from the substance or mixture:

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

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,...). 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.

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



	TION 7: HANDLIN	G AND STORAGE (continued)			
	Maintain order, o	current legislation concerning the preven cleanliness and dispose of using safe met mendations for the prevention of fires an			
	products. Consu	ed to transfer at a slow speed to avoid the It section 10 for conditions and materials mendations on general occupational hyg			
	Do not eat or dri	nk during the process, washing hands aft	erwards with suitable cleaning products.		
	D Technical recom	mendations to prevent environmental risl	ks		
	It is not necessa	ry to take special measures to prevent er	vironmental risks. For more information see subsection 6.2		
7.2	Conditions for safe	e storage, including any incompatibilit	ies:		
	A Technical measu	ures for storage			
	Maximum time:	12 Months			
	B General condition	ns for storage			
	Avoid sources of	f heat, radiation, static electricity and con	tact with food. For additional information see subsection 10.5		
7.3	Specific end use(s):			
	Except for the instru product.	ctions already specified it is not necessa	ry to provide any special recommendation regarding the uses of this		
SEC	TION 8: EXPOSUI	RE CONTROLS/PERSONAL PRO	TECTION		
3.1	Control parameters	s:			
	Substances whose	occupational exposure limits have to be n	nonitored in the workplace:		
	There are no applica	able occupational exposure limits for the s	substances contained in the product		
8.2	Exposure controls	:			
	A Individual protection measures, such as personal protective equipment				
	marking>>. For protection,…) co information conta	more information on Personal Protective insult the information leaflet provided by t ained herein is a recommendation which hether the company has additional meas	ic Personal Protective Equipment, with the corresponding < <ukca Equipment (storage, use, cleaning, maintenance, class of he manufacturer. For more information see subsection 7.1. All needs some specification from the labour risk prevention services as ures at its disposal.</ukca 		
	The use of prote	ction equipment will be necessary if a mis	st forms or if the occupational exposure limits are exceeded.		
	C Specific protection	on for the hands			
	Pictogram	PPE	Remarks		
	- China Chin				
	Mandatory hand protection	Chemical protective gloves	Replace the gloves at any sign of deterioration.		
	As the product is	nd has therefore to be checked prior to the	istance of the glove material can not be calculated in advance with e application.		
	Pictogram	PPE	Remarks		
	Mandatory face	Panoramic glasses against splash/projections.	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.		
	E Body protection	1	I		



AMPure XP Beads / SPRI Beads

Pictogram PPE	Remarks
Work clothing	Replace before any evidence of deterioration. For periods of prolonged exposuto the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN 13688:2013, EN 464:1994.
F Additional emergency measures	
It is not necessary to take additional emerge	ncy measures.
Environmental exposure controls:	
In accordance with the community legislation for spillage of both the product and its container. Fo	the protection of the environment it is recommended to avoid environmental r additional information see subsection 7.1.D
CTION 9: PHYSICAL AND CHEMICAL PRO	DPERTIES
Information on basic physical and chemical p	properties:
For complete information see the product datash	neet.
Appearance:	
Physical state at 20 °C:	Liquid
Appearance:	Colorless
Colour:	Not available
Odour:	Not available
Odour threshold:	Non-applicable *
Volatility:	
Boiling point at atmospheric pressure:	100 °C
Vapour pressure at 20 ºC:	2350 Pa
Vapour pressure at 50 °C:	12381.01 Pa (12.38 kPa)
Evaporation rate at 20 °C:	Non-applicable *
Product description:	
Density at 20 °C:	1032.6 kg/m ³
Relative density at 20 °C:	1.033
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:	Completely miscible
Decomposition temperature:	Non-applicable *
Melting point/freezing point:	Non-applicable *
Flammability: Flash Point:	Non Flammable (>60 °C)
Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	Non-applicable *

- CONTINUED ON NEXT PAGE -

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



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SEC	TION 9: PHYS	ICAL AND CHEMICAL PROPER	RTIES (continued)
	Upper flammab	ility limit:	Non-applicable *
	Particle charac	cteristics:	
	Median equival	ent diameter:	Non-applicable
9.2	Other informat	tion:	
	Information wi	th regard to physical hazard classes	s:
	Explosive prope	erties:	Non-applicable *
	Oxidising prope	erties:	Non-applicable *
	Corrosive to metals:		Non-applicable *
	Heat of combustion:		Non-applicable *
	Aerosols-total p components:	percentage (by mass) of flammable	Non-applicable *
	Other safety c	haracteristics:	
	Surface tensior	n at 20 °C:	Non-applicable *
	Refraction inde	x:	Non-applicable *
	*Not relevant due to the nature of the product, not providing inform		nation 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 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:

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, carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

LD50 oral > 2000 mg/kg (rat)

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
 - Corrosivity/Irritability: Based on available data, the classification criteria are not met
- B- Inhalation (acute effect):



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SECTION 11: TOX	(ICOLOGICAL INFORMATION ((continued)	
- Corrosiv	xicity :Based on available data, the c ity/Irritability: Based on available data h the skin and the eyes (acute effect):	the classification criteria a	
- Contact	with the skin: Based on available data with the eyes: Based on available data ts (carcinogenicity, mutagenicity and to	a, the classification criteria	
IARC: No - Mutagen	genicity: Based on available data, the on-applicable nicity: Based on available data, the cla nctive toxicity: Based on available data effects:	ssification criteria are not m	net
- Skin: Ba	ory: Based on available data, the clas sed on available data, the classificatic get organ toxicity (STOT) - single exp	n criteria are not met	ət
Based on a	available data, the classification criteria	a are not met	
G- Specific tar	get organ toxicity (STOT)-repeated ex	xposure:	
- Skin: Ba	sed on available data, the classification for this effect. For more information set	n criteria are not met, as it	able data, the classification criteria are not met does not contain substances classified as
Based on a	available data, the classification criteria	a are not met	
Other informa	tion:		
Non-applicable			
Specific toxic	ology information on the substance	es:	
Not available			
Acute Toxicity	/ Estimate (ATE mix):		
	ATE mix		Ingredient(s) of unknown toxicity
Oral	>5000 mg/kg (Calc	ulation method)	Non-applicable

SECTION 12: ECOLOGICAL INFORMATION

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

>5000 mg/kg (Calculation method)

>20 mg/L (4 h) (Calculation method)

Non-applicable

Non-applicable

12.1 Toxicity:

Dermal

Inhalation

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



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SECTION 13: DISPOSAL CONSIDERATIONS				
13.1	13.1 Waste treatment methods:			
	Code Description Waste class			
	16 05 09	discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08	Non dangerous	

Type of waste:

Non-applicable

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance The Waste Regulations 2011, 2011 No. 988. As under 15 01 of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of UK REACH the provisions related to waste management are stated:

UK legislation: The Waste Regulations 2011.

SECTION 14: TRANSPORT INFORMATION

Other information:

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID). Transport of dangerous goods by land:

With regard to ADR 2021 and RID 2021:

withtega	IN 10 ADIX 2021 AND 11D 2021.	
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	
	Tunnel restriction code:	Non-applicable
	Physico-Chemical properties:	see section 9
14.7	Transport in bulk according to	Non-applicable
	Annex II of Marpol and the IBC	
	Code:	
Transpor	t of dangerous goods by sea:	
With rega	rd to IMDG 40-20:	
14.1	UN number:	Non-applicable
14.2	UN proper shipping name:	Non-applicable
14.2 14.3	UN proper shipping name: Transport hazard class(es):	Non-applicable Non-applicable
	Transport hazard class(es):	Non-applicable
14.3	Transport hazard class(es): Labels:	Non-applicable Non-applicable
14.3 14.4	Transport hazard class(es): Labels: Packing group:	Non-applicable Non-applicable Non-applicable
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant:	Non-applicable Non-applicable Non-applicable
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user	Non-applicable Non-applicable Non-applicable No
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations:	Non-applicable Non-applicable Non-applicable No
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes:	Non-applicable Non-applicable No No Non-applicable
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties:	Non-applicable Non-applicable No Non-applicable No Non-applicable see section 9
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities:	Non-applicable Non-applicable No Non-applicable see section 9 Non-applicable Non-applicable
14.3 14.4 14.5 14.6	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group: Transport in bulk according to Annex II of Marpol and the IBC	Non-applicable Non-applicable No Non-applicable see section 9 Non-applicable Non-applicable
14.3 14.4 14.5 14.6 14.7 Transpor	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group: Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicable Non-applicable No Non-applicable see section 9 Non-applicable Non-applicable



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:	

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

- Substances listed in UK candidate list of substances of very high concern (SVHCs): Non-applicable - Substances listed in UK REACH Authorisation List (Annex 14): Non-applicable

Restrictions to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII UK 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 REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2020.

Control of Substances Hazardous to Health Regulations 2002 (as amended)

EH40/2005 Workplace exposure limits.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

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

GB CLP Regulation:

Non-applicable

Classification procedure:

Non-applicable

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:



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SECTION 16: OTHER INFORMATION	V (continued)

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 UK, 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. - END OF SAFETY DATA SHEET -



EDTA

nting: SEC	TION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1	Product identifier: EDTA
	Other means of identification:
	EDTA
1.2	Relevant identified uses of the substance or mixture and uses advised against:
	Relevant uses: Research use 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:
	Oxford Nanopore Technologies
	Gosling Building, Edmund Halley Road, Oxford Science Park
	OX4 4DQ Oxford - Oxon - England Phone: +44 (0)845 034 7900 - Fax: +44 (0)845 034 7901
	http://www.nanoporetech.com/
1.4	Emergency telephone number: +44 (0)845 034 7900 (9am-5:30pm GMT)
	CTION 2: HAZARDS IDENTIFICATION Classification of the substance or mixture:
SEC 2.1	
	Classification of the substance or mixture: GB CLP Regulation:
2.1	Classification of the substance or mixture: GB CLP Regulation: The product is not classified as hazardous according to GB CLP Regulation.
	Classification of the substance or mixture: GB CLP Regulation: The product is not classified as hazardous according to GB CLP Regulation. Label elements:
2.1	Classification of the substance or mixture: GB CLP Regulation: The product is not classified as hazardous according to GB CLP Regulation. Label elements: GB CLP Regulation:
2.1	Classification of the substance or mixture: GB CLP Regulation: The product is not classified as hazardous according to GB CLP Regulation. Label elements: GB CLP Regulation: Hazard statements:
2.1	Classification of the substance or mixture: GB CLP Regulation: The product is not classified as hazardous according to GB CLP Regulation. Label elements: GB CLP Regulation: Hazard statements: Non-applicable
2.1	Classification of the substance or mixture: GB CLP Regulation: The product is not classified as hazardous according to GB CLP Regulation. Label elements: GB CLP Regulation: Hazard statements: Non-applicable Precautionary statements:
2.1	Classification of the substance or mixture: GB CLP Regulation: The product is not classified as hazardous according to GB CLP Regulation. Label elements: GB CLP Regulation: Hazard statements: Non-applicable Precautionary statements: P101: If medical advice is needed, have product container or label at hand.
2.1	Classification of the substance or mixture: GB CLP Regulation: The product is not classified as hazardous according to GB CLP Regulation. Label elements: GB CLP Regulation: Hazard statements: Non-applicable Precautionary statements: P101: If medical advice is needed, have product container or label at hand. P102: Keep out of reach of children. P501: Dispose of the contents and/or its container using the separate collection system in your municipality.
2.1	Classification of the substance or mixture: GB CLP Regulation: The product is not classified as hazardous according to GB CLP Regulation. Label elements: GB CLP Regulation: Hazard statements: Non-applicable Precautionary statements: P101: If medical advice is needed, have product container or label at hand. P102: Keep out of reach of children. P501: Dispose of the contents and/or its container using the separate collection system in your municipality. Supplementary information:
2.1	Classification of the substance or mixture: GB CLP Regulation: The product is not classified as hazardous according to GB CLP Regulation. Label elements: GB CLP Regulation: Hazard statements: Non-applicable Precautionary statements: P101: If medical advice is needed, have product container or label at hand. P102: Keep out of reach of children. P501: Dispose of the contents and/or its container using the separate collection system in your municipality. Supplementary information: EUH210: Safety data sheet available on request.
2.1	Classification of the substance or mixture: GB CLP Regulation: The product is not classified as hazardous according to GB CLP Regulation. Label elements: GB CLP Regulation: Hazard statements: Non-applicable Precautionary statements: P101: If medical advice is needed, have product container or label at hand. P102: Keep out of reach of children. P501: Dispose of the contents and/or its container using the separate collection system in your municipality. Supplementary information:

3.1 Substance:

Non-applicable

3.2 Mixture:

Chemical description: Aqueous solution of organic and inorganic compounds, containing surfactants, enymes and glycolethers.

Components:

In accordance with Annex II of The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020, the product contains:

	Identification	Chemical name/Classification	Concentration
		edetic acid	4 40.00
CAS:	60-00-4	Eye Irrit. 2: H319 - Warning	1 - <10 %
To ob	tain more informat	ion on the hazards of the substances consult sections 11, 12 and 16	

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

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

EDTA

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SECTION 4: FIRST AID MEASURES (continued)

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:

NANOPORE

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:

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 eve contact:

Rinse eyes thoroughly with water for at least 15 minutes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case removal could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS for the product.

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:

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,...).

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. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

For emergency responders:

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

6.2 **Environmental precautions:**

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

6.3 Methods and material for containment and cleaning up:

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Printing: 19/06/2023 Date of compilation: 02/06/2023 Version: 1 SECTION 6: ACCIDENTAL RELEASE MEASURES (continued) 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 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 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 12 Months Maximum time: 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: There are no applicable occupational exposure limits for the substances contained in the product 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 <<UKCA marking>>. 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

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Pictogram	PPE	Remarks
Mandatory hand protection	Chemical protective gloves (Material: Nitrile, Breakthrough time: 10 - 30 min)	Replace the gloves at any sign of deterioration.
	a mixture of several substances, the res has therefore to be checked prior to the	istance of the glove material can not be calculated in advance with e application.

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CTI <u>ON 8</u>	: EXPOSUR	RE CONTROLS/PERSON	IAL PRO	TECTION (continued)	
	e and face prot				
	Pictogram	PPE			Remarks
	Mandatory face protection	Panoramic glasses against splash	/projections.		/ according to the manufacturer's instruct is a risk of splashing.
E Boo	dy protection	<u></u>			
	Pictogram	PPE			Remarks
		Work clothing		to the product for professional/i accordance with the regulations in E	terioration. For periods of prolonged expo ndustrial users CE III is recommended, in N ISO 6529:2013, EN ISO 6530:2005, EN 013, EN 464:1994.
F Add	ditional emerge	ency measures			
	Emergency mea	asure Standar	rds	Emergency measure	Standards
	Emergency sho	ANSI Z3 ISO 3864-1:2011, IS		11 Eyewash stations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:201
		osure controls:			1
				n of the environment it is recor formation see subsection 7.1.	nmended to avoid environmental ס
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SECTION 9: PHYSICAL AND CHEMICAL PROPE	RTIES (continued)
Solubility in water at 20 °C:	Non-applicable *
Solubility properties:	Completely miscible
Decomposition temperature:	Non-applicable *
Melting point/freezing point:	Non-applicable *
Flammability:	
Flash Point:	Non Flammable (>60 °C)
Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	Non-applicable *
Lower flammability limit:	Non-applicable *
Upper flammability limit:	Non-applicable *
Particle characteristics:	
Median equivalent diameter:	Non-applicable
9.2 Other information:	
Information with regard to physical hazard class	es:
Explosive properties:	Non-applicable *
Oxidising properties:	Non-applicable *
Corrosive to metals:	Non-applicable *
Heat of combustion:	Non-applicable *
Aerosols-total percentage (by mass) of flammable components:	Non-applicable *
Other safety characteristics:	
Surface tension at 20 °C:	Non-applicable *
Refraction index:	Non-applicable *
*Not relevant due to the nature of the product, not providing info	prmation property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

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

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:

	emperature Sunlight Humidity
Not applicable Not applicable Not ap	licable 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, carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

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SECT	TION 11: TOXIC	COLOGICAL INFOR	MATION (cor	ntinued)				
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 lin adverse effects on health may result, depending on the means of exposure: A- Ingestion (acute effect):						oosure limits,	
	as hazardous - Corrosivity	tity : Based on available of or consumption. For m /Irritability: Based on ava hazardous for this effect tute effect):	ore information ailable data, the	see section 3 classification crite	ria are not m			
	as hazardous - Corrosivity classified as l	tity : Based on available s for inhalation. For more /Irritability: Based on avai hazardous for this effect the skin and the eyes (a	e information see ailable data, the . For more inforr	e section 3. classification crite	ria are not m			
	classified as l - Contact wi classified as l	th the skin: Based on av hazardous for skin conta th the eyes: Based on a hazardous for this effect (carcinogenicity, mutage	ect. For more inf vailable data, th . For more inform	ormation see secti e classification crit mation see section	on 3. eria are not i 3.			
	 D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction): Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3. IARC: Non-applicable Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3. Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3. Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3. Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3. E- Sensitizing effects: 					s classified as		
	hazardous wi - Skin: Base hazardous fo	y: Based on available da th sensitising effects. Fo d on available data, the r this effect. For more in et organ toxicity (STOT)	or more informat classification cri formation see se	ion see section 3. iteria are not met, ection 3.				
	this effect. Fo	ailable data, the classific or more information see	section 3.	,	s not contair	n subs	tances classified as ha	zardous for
	 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. 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:					zardous for		
	Non-applicable							
	Specific toxicol	ogy information on the	substances:					
		Identificatio	on			Acu	te toxicity	Genus
	edetic acid				LD50 oral		2581 mg/kg	Rat
	CAS: 60-00-4				LD50 dermal		Non-applicable	
					LC50 inhalatio	n	Non-applicable	
	Acute Toxicity E	Estimate (ATE mix):						
		A	ATE mix				Ingredient(s) of unknown	toxicity

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SECTION 11: TO	XICOLOGICAL INFORMATION (continued)

Oral	>5000 mg/kg (Calculation method)	Non-applicable			
Dermal	>5000 mg/kg (Calculation method)	Non-applicable			
Inhalation	>20 mg/L (4 h) (Calculation method)	Non-applicable			

SECTION 12: ECOLOGICAL INFORMATION

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

12.1 Toxicity:

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Acute toxicity:

Identification	Concentration		Species	Genus
edetic acid	LC50	41 mg/L (96 h)	Lepomis macrochirus	Fish
CAS: 60-00-4	EC50	610 mg/L (24 h)	Daphnia magna	Crustacean
		1.01 mg/L (72 h)	Scenedesmus subspicatus	Algae

Chronic toxicity:

Identification		Concentration	Species	Genus
edetic acid	NOEC	25.7 mg/L	Danio rerio	Fish
CAS: 60-00-4	NOEC	25 mg/L	Daphnia magna	Crustacean

12.2 Persistence and degradability:

Not available

12.3 Bioaccumulative potential:

Substance-specific information:

Identification	Bioaccumulation potential		
edetic acid	BCF	13	
CAS: 60-00-4	Pow Log	-3.34	
	Potential	Low	

12.4 Mobility in soil:

Identification	Absorp	Absorption/desorption		ility
edetic acid	Кос	1046	Henry	0E+0 Pa⋅m³/mol
CAS: 60-00-4	Conclusion	Low	Dry soil	No
	Surface tension	Non-applicable	Moist soil	No
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
16 05 09	discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08	Non dangerous

Type of waste:

Non-applicable

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance The Waste Regulations 2011, 2011 No. 988. As under 15 01 of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of UK REACH the provisions related to waste management are stated:

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SECTION 13: DISPOSAL CONSIDERATIONS (continued)

UK legislation: The Waste Regulations 2011.

SECTION 14: TRANSPORT INFORMATION

Other information:

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The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID). **Transport of dangerous goods by land:**

With regard to ADR 2021 and RID 2021:

14.1 14.2	UN number:	Non-applicable
14.2	UN proper shipping name: Transport hazard class(es): Labels:	Non-applicable Non-applicable Non-applicable
14.4	Packing group:	Non-applicable
14.5	Environmental hazards:	No
14.6	Special precautions for user	
	Tunnel restriction code:	Non-applicable
	Physico-Chemical properties:	see section 9
14.7	Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicable
Transpor	t of dangerous goods by sea:	
With rega	rd to IMDG 40-20:	
14.1 14.2	UN number: UN proper shipping name:	Non-applicable Non-applicable
14.3	Transport hazard class(es):	Non-applicable
	Labels:	Non-applicable
14.4	Packing group:	Non-applicable
14.5	Marine pollutant:	No
14.6	Special precautions for user	
	Special regulations:	Non-applicable
	EmS Codes:	
	Physico-Chemical properties:	see section 9
	Limited quantities:	Non-applicable
447	Segregation group:	Non-applicable
14.7	Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicable
Transpor	t of dangerous goods by air:	
With rega	rd to IATA/ICAO 2023:	
14.1	UN number:	Non-applicable
14.2	UN proper shipping name:	Non-applicable
14.3	Transport hazard class(es):	Non-applicable
14.4	Labels: Packing group:	Non-applicable Non-applicable
14.4	Environmental hazards:	No
14.6	Special precautions for user	
	Physico-Chemical properties:	see section 9
14.7	Transport in bulk according to	Non-applicable

14.7 Transport in bulk according to Non-applicable 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:

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SECTION 15: REGULATORY INFORMATION (continued)

- Substances listed in UK candidate list of substances of very high concern (SVHCs): Non-applicable

- Substances listed in UK REACH Authorisation List (Annex 14): Non-applicable

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

Non-applicable

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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 REACH etc. (Amendment etc.) (EU Exit) Regulations 2020. The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2020. Control of Substances Hazardous to Health Regulations 2002 (as amended) EH40/2005 Workplace exposure limits.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

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

GB CLP Regulation:

Eye Irrit. 2: H319 - Causes serious eye irritation.

Classification procedure:

Non-applicable

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 UK, 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 awarenees 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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SEC	TION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING					
1.1	Product identifier: Elution Buffer					
	Other means of identification:					
	VEB, EB, ELB, VELB					
1.2	Relevant identified uses of the substance or mixture and uses advised against:					
	Relevant uses: Research use 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:					
	Oxford Nanopore Technologies Gosling Building, Edmund Halley Road, Oxford Science Park OX4 4DQ Oxford - Oxon - England Phone: +44 (0)845 034 7900 - Fax: +44 (0)845 034 7901 http://www.nanoporetech.com/					
1.4	Emergency telephone number: +44 (0)845 034 7900 (9am-5:30pm GMT)					
SEC	TION 2: HAZARDS IDENTIFICATION					
2.1	Classification of the substance or mixture:					
	GB CLP Regulation:					
	The product is not classified as hazardous according to GB CLP Regulation.					
2.2	Label elements:					
	GB CLP Regulation:					

Hazard statements:

Non-applicable

Precautionary statements:

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

P501: Dispose of the contents and/or its container using the separate collection system in your municipality.

2.3 Other hazards:

Product fails to meet PBT/vPvB criteria

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Non-applicable

3.2 Mixture:

Chemical description: Aqueous solution of organic and inorganic compounds, containing surfactants, enymes and glycolethers.

Components:

None of the substances contained in the mixture are above the values fixed in Annex II of The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

Consult a doctor in case of discomfort showing the SDS for the product.

By inhalation:

In case of symptoms, move the person affected into fresh air.

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



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SECTION 4: FIRST AID MEASURES (continued)

By eye contact:

Rinse with water until the product has been eliminated. In case of problems, consult a doctor showing the SDS for the product.

By ingestion/aspiration:

In case of consumption in large quantities, it is recommended to seek medical assistance.

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

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

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

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

Product is non-flammable, with a low risk of fire due to the flammability characteristics of the product in normal conditions of storage, handling and use. In the case of the existence of sustained combustion as a result of improper handling, storage or use any type of extinguishing agent can be used (ABC Powder, water,...)

Unsuitable extinguishing media:

Non-applicable

5.2 Special hazards arising from the substance or mixture:

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

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,...). 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.

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



SEC	TION 7: HANDLIN	G AND STORAGE (continued)			
	Maintain order, c B Technical recom	leanliness and dispose of using safe met mendations for the prevention of fires an			
	products. Consu C Technical recom	It section 10 for conditions and materials mendations on general occupational hyg	that should be avoided. iene		
		nk during the process, washing hands aft mendations to prevent environmental risk			
	It is not necessary to take special measures to prevent environmental risks. For more information see subsection 6.2				
.2		storage, including any incompatibiliti			
	A Technical measu				
	Maximum time:	12 Months			
	B General conditio				
		-	test with food. For additional information and subsection 10.5		
			tact with food. For additional information see subsection 10.5		
7.3	Specific end use(s)				
	Except for the instru product.	ctions already specified it is not necessar	y to provide any special recommendation regarding the uses of this		
	1				
SEC		RE CONTROLS/PERSONAL PRO	TECTION		
		RE CONTROLS/I ERGONALT RO			
8.1	Control parameters	s:			
	Substances whose of	occupational exposure limits have to be n	nonitored in the workplace:		
	There are no applica	ble occupational exposure limits for the s	substances contained in the product		
8.2	Exposure controls:				
	A Individual protec	tion measures, such as personal protectiv	ve equipment		
	marking>>. For r protection,) co information conta it is not known w B Respiratory prote	nore information on Personal Protective I nsult the information leaflet provided by t ained herein is a recommendation which hether the company has additional meas action			
	The use of prote	The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.			
	C Specific protection	on for the hands			
	Pictogram	PPE	Remarks		
	Mandatory hand	Chemical protective gloves	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	Remarks		
	Mandatory face	Panoramic glasses against splash/projections.	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.		
	E Body protection	I	l		



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)							
Pictogram PPE Remarks							
		Work clothing	Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994.				
F	F Additional emergency measures						

It is not necessary to take additional emergency measures.

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

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:	Liquid
Appearance:	Colorless
Colour:	Not available
Odour:	Not available
Odour threshold:	Non-applicable *
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:	Non-applicable *
Product description:	
Density at 20 °C:	1034 kg/m³
Relative density at 20 ºC:	1.034
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:	Completely miscible
Decomposition temperature:	Non-applicable *
Melting point/freezing point:	Non-applicable *
Flammability:	
Flash Point:	Non Flammable (>60 °C)
Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	Non-applicable *
Lower flammability limit:	Non-applicable *
*Not relevant due to the nature of the product, not providing in	formation property of its hazards.



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SEC	TION 9: PHYSICAL AND CHE	MICAL PROPER	RTIES (continued)
	Upper flammability limit:		Non-applicable *
	Particle characteristics:		
	Median equivalent diameter:		Non-applicable
9.2	Other information:		
	Information with regard to physi	cal hazard classes	S:
	Explosive properties:		Non-applicable *
Oxidising properties:			Non-applicable *
Corrosive to metals:			Non-applicable *
	Heat of combustion:		Non-applicable *
Aerosols-total percentage (by mass) of flammable components:		s) of flammable	Non-applicable *
Other safety characteristics:			
Surface tension at 20 °C:			Non-applicable *
	Refraction index:		Non-applicable *
	*Not relevant due to the nature of the prod	uct, not providing inform	nation 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 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:

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, carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

LD50 oral > 2000 mg/kg (rat)

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
 - Corrosivity/Irritability: Based on available data, the classification criteria are not met
- B- Inhalation (acute effect):



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CTION 11: TOXICOLOC	GICAL INFORMATION (co	ontinued)	
 Corrosivity/Irritabili 	sed on available data, the clas ty: Based on available data, th and the eyes (acute effect):	sification criteria are not met e classification criteria are not m	net
 Contact with the ey 		ne classification criteria are not r he classification criteria are not city to reproduction):	
IARC: Non-applicat - Mutagenicity: Base	ble d on available data, the class	ssification criteria are not met fication criteria are not met ne classification criteria are not n	net
 Skin: Based on available 	l on available data, the classif ailable data, the classification toxicity (STOT) - single expos	criteria are not met	
Based on available d	ata, the classification criteria a	re not met	
G- Specific target organ	toxicity (STOT)-repeated expo	osure:	
 Skin: Based on available 		criteria are not met, as it does no	a, the classification criteria are not met ot contain substances classified as
Based on available d	ata, the classification criteria a	re not met	
Other information:			
Non-applicable			
Specific toxicology info	rmation on the substances:		
Not available			
Acute Toxicity Estimate	e (ATE mix):		
	ATE mix		Ingredient(s) of unknown toxicity
Oral	>5000 mg/kg (Calcula	tion method)	Non-applicable

SECTION 12: ECOLOGICAL INFORMATION

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

>5000 mg/kg (Calculation method)

>20 mg/L (4 h) (Calculation method)

Non-applicable

Non-applicable

12.1 Toxicity:

Dermal

Inhalation

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



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SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Code	Description	Waste class
16 05 09	discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08	Non dangerous

Type of waste:

Non-applicable

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance The Waste Regulations 2011, 2011 No. 988. As under 15 01 of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of UK REACH the provisions related to waste management are stated:

UK legislation: The Waste Regulations 2011.

SECTION 14: TRANSPORT INFORMATION

Other information:

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID). Transport of dangerous goods by land:

With regard to ADR 2021 and RID 2021:

wiintega		
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	
	Tunnel restriction code:	Non-applicable
	Physico-Chemical properties:	see section 9
14.7	Transport in bulk according to	Non-applicable
	Annex II of Marpol and the IBC	
	Code:	
Transpo	rt of dangerous goods by sea:	
With rega	rd to IMDG 40-20:	
14.1	UN number:	Non-applicable
14.2	UN proper shipping name:	Non-applicable
14.2 14.3	UN proper shipping name: Transport hazard class(es):	Non-applicable Non-applicable
	Transport hazard class(es):	Non-applicable
14.3	Transport hazard class(es): Labels:	Non-applicable Non-applicable
14.3 14.4	Transport hazard class(es): Labels: Packing group:	Non-applicable Non-applicable Non-applicable
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant:	Non-applicable Non-applicable Non-applicable
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user	Non-applicable Non-applicable Non-applicable No
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations:	Non-applicable Non-applicable Non-applicable No
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes:	Non-applicable Non-applicable No No Non-applicable
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties:	Non-applicable Non-applicable No Non-applicable No Non-applicable see section 9
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group: Transport in bulk according to	Non-applicable Non-applicable No Non-applicable see section 9 Non-applicable Non-applicable
14.3 14.4 14.5 14.6	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group:	Non-applicable Non-applicable No Non-applicable see section 9 Non-applicable Non-applicable
14.3 14.4 14.5 14.6	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group: Transport in bulk according to Annex II of Marpol and the IBC	Non-applicable Non-applicable No Non-applicable see section 9 Non-applicable Non-applicable
14.3 14.4 14.5 14.6 14.7 Transpor	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group: Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicable Non-applicable No Non-applicable see section 9 Non-applicable Non-applicable



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SECTION 14:	TRANSPORT INFORMATION	N (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:	
SECTION 15:	REGULATORY INFORMATIC	ON

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

- Substances listed in UK candidate list of substances of very high concern (SVHCs): Non-applicable
 - Substances listed in UK REACH Authorisation List (Annex 14): Non-applicable

Restrictions to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII UK 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 REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2020.

Control of Substances Hazardous to Health Regulations 2002 (as amended) EH40/2005 Workplace exposure limits.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

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

GB CLP Regulation:

Non-applicable

Classification procedure:

Non-applicable

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:



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SECTION 16: OTHER INFORMATION (continued)
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 UK, 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. - END OF SAFETY DATA SHEET -



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1.1	Product identifier: Flow Cell Flush
	Other means of identification:
	FCF
1.2	Relevant identified uses of the substance or mixture and uses advised against:
	Relevant uses: Research use 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:
	Oxford Nanopore Technologies Gosling Building, Edmund Halley Road, Oxford Science Park OX4 4DQ Oxford - Oxon - England Phone: +44 (0)845 034 7900 - Fax: +44 (0)845 034 7901 http://www.nanoporetech.com/
1.4	Emergency telephone number: +44 (0)845 034 7900 (9am-5:30pm GMT)
SEC	TION 2: HAZARDS IDENTIFICATION

GB CLP Regulation:

The product is not classified as hazardous according to GB CLP Regulation.

2.2 Label elements:

GB CLP Regulation:

Hazard statements:

Non-applicable

Precautionary statements:

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

P501: Dispose of the contents and/or its container using the separate collection system in your municipality.

2.3 Other hazards:

Product fails to meet PBT/vPvB criteria

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Non-applicable

3.2 Mixture:

Chemical description: Aqueous solution of organic and inorganic compounds, containing surfactants, enymes and glycolethers.

Components:

None of the substances contained in the mixture are above the values fixed in Annex II of The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

Consult a doctor in case of discomfort showing the SDS for the product.

By inhalation:

In case of symptoms, move the person affected into fresh air.

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



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SECTION 4: FIRST AID MEASURES (continued)

By eye contact:

Rinse with water until the product has been eliminated. In case of problems, consult a doctor showing the SDS for the product.

By ingestion/aspiration:

In case of consumption in large quantities, it is recommended to seek medical assistance.

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

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

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

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

Product is non-flammable, with a low risk of fire due to the flammability characteristics of the product in normal conditions of storage, handling and use. In the case of the existence of sustained combustion as a result of improper handling, storage or use any type of extinguishing agent can be used (ABC Powder, water,...)

Unsuitable extinguishing media:

Non-applicable

5.2 Special hazards arising from the substance or mixture:

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

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,...). 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.

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



Mair B Tecl It is prod C Tecl Do r D Tecl It is 7.2 Conditi A Tecl Max B Gen Avoi 7.3 Specifi d Except i product 5.5 CTION 8: 3.1 Control Substar There a 3.2 Exposu A Indiv As a maril prote infor it is B Res The C Spe	aintain order, cl achnical recommende oducts. Consul achnical recommende oducts. Consul achnical recommende on not eat or drir achnical recommende as not necessar itions for safe achnical measu aximum time: eneral condition void sources of fic end use(s) of for the instruc- ct. B: EXPOSUR ances whose of are no applica sure controls: dividual protect	eanliness and dispose of using safe met mendations for the prevention of fires and d to transfer at a slow speed to avoid the t section 10 for conditions and materials mendations on general occupational hygi k during the process, washing hands after mendations to prevent environmental risk y to take special measures to prevent en storage, including any incompatibiliti res for storage 12 Months ns for storage heat, radiation, static electricity and cont ctions already specified it is not necessar	d explosions e creation of electrostatic charges that could affect flammable that should be avoided. iene erwards with suitable cleaning products. cs invironmental risks. For more information see subsection 6.2 ies: tact with food. For additional information see subsection 10.5 ry to provide any special recommendation regarding the uses of this TECTION nonitored in the workplace: substances contained in the product we equipment		
C Tecl Do r D Tecl It is 7.2 Conditi A Tecl Max B Gen Avoi 7.3 Specific Except f product 3.1 Control Substar There a 3.2 Exposu A Indiv As a mari prote infor it is B Res The C Spe	oducts. Consul echnical recommon echnical recommon s not eat or drin echnical recommon s not necessar itions for safe echnical measu aximum time: eneral condition void sources of fic end use(s) of for the instruc- ct. B: EXPOSUR ol parameters ances whose of are no applica sure controls: dividual protect	t section 10 for conditions and materials mendations on general occupational hygi ik during the process, washing hands after mendations to prevent environmental risk y to take special measures to prevent en storage, including any incompatibilitier res for storage 12 Months ns for storage heat, radiation, static electricity and cont cont stions already specified it is not necessar RE CONTROLS/PERSONAL PROT : ccupational exposure limits have to be method by the storage ble occupational exposure limits for the storage	that should be avoided. iene erwards with suitable cleaning products. (s ivironmental risks. For more information see subsection 6.2 ies: tact with food. For additional information see subsection 10.5 ry to provide any special recommendation regarding the uses of this TECTION honitored in the workplace: substances contained in the product ve equipment		
Do r D Teck It is 7.2 Conditi A Teck Max B Gen Avoi 7.3 Specific Except f product. SECTION 8: 8.1 Control Substar There a 8.2 Exposu A Indiv As a mari prote infor it is B Res The C Specific	o not eat or drin echnical recommendations for safe echnical measure aximum time: eneral condition void sources of fic end use(s) of for the instruct ct. B: EXPOSUR ol parameters ances whose of are no applica sure controls:	A during the process, washing hands after mendations to prevent environmental risk y to take special measures to prevent en storage, including any incompatibilities res for storage 12 Months ns for storage heat, radiation, static electricity and cont stions already specified it is not necessar RE CONTROLS/PERSONAL PROT : ccupational exposure limits have to be m ble occupational exposure limits for the s	erwards with suitable cleaning products. (s invironmental risks. For more information see subsection 6.2 ies: tact with food. For additional information see subsection 10.5 ry to provide any special recommendation regarding the uses of this TECTION nonitored in the workplace: substances contained in the product we equipment		
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SECTION 8: 8.1 Control Substar There a 8.2 Exposu A Indiv As a marl prote it is B Res The C Spec	B: EXPOSUF ol parameters ances whose o are no applica sure controls: dividual protect	: ccupational exposure limits have to be m ble occupational exposure limits for the s	nonitored in the workplace: substances contained in the product ve equipment		
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8.1 Control Substar There a 8.2 Exposu A Indiv As a marl prote infor it is B Res The C Sper	ol parameters ances whose o are no applica sure controls: dividual protect	: ccupational exposure limits have to be m ble occupational exposure limits for the s	nonitored in the workplace: substances contained in the product ve equipment		
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There a 8.2 Exposu A Indix As a marl prote infor it is B Res The C Spe	are no applica sure controls: dividual protect	ble occupational exposure limits for the s	substances contained in the product ve equipment		
8.2 Exposu A Indiv As a marl prote infor it is B Res The C Spe	sure controls: dividual protect		ve equipment		
A Indiv As a marl prote infor it is B Res The C Spec	dividual protect	ion measures, such as personal protectiv			
As a mari prote infor it is B Res The C Spe		ion measures, such as personal protectiv			
C Spe M As ti total	arking>>. For n otection,…) cor ormation conta s not known wł espiratory prote				
As ti total	The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.				
As ti total	ecific protectio	n for the hands			
As ti total	Pictogram	PPE	Remarks		
total	Mandatory hand protection Chemical protective gloves 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.				
-	e and face pro		approxiter.		
	Pictogram	PPE	Remarks		
		Panoramic glasses against splash/projections.	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.		
N					
E Bod	Mandatory face protection				



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)					
	Pictogram	PPE	Remarks		
		Work clothing	Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994.		
F	Additional emerge	ency measures	·		

It is not necessary to take additional emergency measures.

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

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:	Liquid
Appearance:	Colorless
Colour:	Colourless
Odour:	Odourless
Odour threshold:	Non-applicable *
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:	Non-applicable *
Product description:	
Density at 20 ºC:	1068.5 kg/m ³
Relative density at 20 °C:	1.068
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 *
Flammability:	
Flash Point:	Non Flammable (>60 °C)
Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	Non-applicable *
Lower flammability limit:	Non-applicable *
*Not relevant due to the nature of the product, not providing infor	mation property of its hazards.



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SEC	TION 9: PHYS	ICAL AND CHEMICAL PROP	ERTIES (continued)
	Upper flammab	ility limit:	Non-applicable *
	Particle charac	teristics:	
	Median equivale	ent diameter:	Non-applicable
9.2	Other informat	ion:	
	Information wi	th regard to physical hazard class	Ses:
	Explosive prope	erties:	Non-applicable *
	Oxidising prope	rties:	Non-applicable *
	Corrosive to me	etals:	Non-applicable *
	Heat of combus	tion:	Non-applicable *
	Aerosols-total p components:	ercentage (by mass) of flammable	Non-applicable *
	Other safety cl	naracteristics:	
	Surface tension	at 20 °C:	Non-applicable *
	Refraction index	K:	Non-applicable *
	*Not relevant due to	o the nature of the product, not providing inf	formation 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 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:

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, carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

LD50 oral > 2000 mg/kg (rat)

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
 - Corrosivity/Irritability: Based on available data, the classification criteria are not met
- B- Inhalation (acute effect):



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CTION 11: TOXICOLOGICAL INF	ORMATION (co	ntinued)			
 Acute toxicity : Based on avail Corrosivity/Irritability: Based on Contact with the skin and the eye 	n available data, the		net		
 Contact with the skin: Based on available data, the classification criteria are not met Contact with the eyes: Based on available data, the classification criteria are not met CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction): 					
 Carcinogenicity: Based on available data, the classification criteria are not met IARC: Non-applicable Mutagenicity: Based on available data, the classification criteria are not met Reproductive toxicity: Based on available data, the classification criteria are not met Sensitizing effects: 					
 Respiratory: Based on available data, the classification criteria are not met Skin: Based on available data, the classification criteria are not met F- Specific target organ toxicity (STOT) - single exposure: 					
Based on available data, the classification criteria are not met					
G- Specific target organ toxicity (ST	OT)-repeated expos	sure:			
 Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met 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 clas	Based on available data, the classification criteria are not met				
Other information:	Other information:				
Non-applicable	Non-applicable				
Specific toxicology information on the substances:					
Not available					
Acute Toxicity Estimate (ATE mix):				
	ATE mix		Ingredient(s) of unknown toxicity		
Oral	>5000 mg/kg (Calculati	on method)	Non-applicable		

SECTION 12: ECOLOGICAL INFORMATION

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

>5000 mg/kg (Calculation method)

>20 mg/L (4 h) (Calculation method)

Non-applicable

12.1 Toxicity:

Dermal

Inhalation

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



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SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Code	Description	Waste class
16 05 09	discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08	Non dangerous

Type of waste:

Non-applicable

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance The Waste Regulations 2011, 2011 No. 988. As under 15 01 of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of UK REACH the provisions related to waste management are stated:

UK legislation: The Waste Regulations 2011.

SECTION 14: TRANSPORT INFORMATION

Other information:

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID). Transport of dangerous goods by land:

With regard to ADR 2021 and RID 2021:

withtege	IN 10 ADIX 2021 and RID 2021.	
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	
	Tunnel restriction code:	Non-applicable
	Physico-Chemical properties:	see section 9
14.7	Transport in bulk according to	Non-applicable
	Annex II of Marpol and the IBC	
	Code:	
Transpo	rt of dangerous goods by sea:	
With rega	rd to IMDG 40-20:	
14.1	UN number:	Non-applicable
14.2	UN proper shipping name:	Non-applicable
14.2 14.3	UN proper shipping name: Transport hazard class(es):	Non-applicable Non-applicable
	Transport hazard class(es):	Non-applicable
14.3	Transport hazard class(es): Labels:	Non-applicable Non-applicable
14.3 14.4	Transport hazard class(es): Labels: Packing group:	Non-applicable Non-applicable Non-applicable
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant:	Non-applicable Non-applicable Non-applicable
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user	Non-applicable Non-applicable Non-applicable No
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations:	Non-applicable Non-applicable Non-applicable No
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes:	Non-applicable Non-applicable No No Non-applicable
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties:	Non-applicable Non-applicable No Non-applicable No Non-applicable see section 9
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group: Transport in bulk according to	Non-applicable Non-applicable No Non-applicable see section 9 Non-applicable Non-applicable
14.3 14.4 14.5 14.6	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group:	Non-applicable Non-applicable No Non-applicable see section 9 Non-applicable Non-applicable
14.3 14.4 14.5 14.6	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group: Transport in bulk according to Annex II of Marpol and the IBC	Non-applicable Non-applicable No Non-applicable see section 9 Non-applicable Non-applicable
14.3 14.4 14.5 14.6 14.7 Transport	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group: Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicable Non-applicable No Non-applicable see section 9 Non-applicable Non-applicable



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SECTION 14:	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): Labels:	Non-applicable 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:					

SECTION 15: REGULATORY INFORMATION

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

- Substances listed in UK candidate list of substances of very high concern (SVHCs): Non-applicable
 - Substances listed in UK REACH Authorisation List (Annex 14): Non-applicable

Restrictions to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII UK 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 REACH etc. (Amendment etc.) (EU Exit) Regulations 2020. The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit)

Regulations 2020.

Control of Substances Hazardous to Health Regulations 2002 (as amended)

EH40/2005 Workplace exposure limits.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

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

GB CLP Regulation:

Non-applicable

Classification procedure:

Non-applicable

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:



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SECTION 16: OTHER INFORMATION (continued)
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 UK, 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. - END OF SAFETY DATA SHEET -



Flowcell (Flush) Tether / Priming Tether

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SEC	TION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1	Product identifier: Flowcell (Flush) Tether / Priming Tether
	Other means of identification:
	FLT, PT, FT, FCT
1.2	Relevant identified uses of the substance or mixture and uses advised against:
	Relevant uses: Research use 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:
	Oxford Nanopore Technologies
	Gosling Building, Edmund Halley Road, Oxford Science Park OX4 4DQ Oxford - Oxon - England
	Phone: +44 (0)845 034 7900 - Fax: +44 (0)845 034 7901
1.4	http://www.nanoporetech.com/ Emergency telephone number: +44 (0)845 034 7900 (9am-5:30pm GMT)
000	
	TION 2: HAZARDS IDENTIFICATION
2.1	Classification of the substance or mixture:
	GB CLP Regulation:
2.2	The product is not classified as hazardous according to GB CLP Regulation. Label elements:
2.2	GB CLP Regulation:
	Hazard statements:
	Non-applicable
	Precautionary statements:
	P101: If medical advice is needed, have product container or label at hand. P102: Keep out of reach of children. P501: Dispose of the contents and/or its container using the separate collection system in your municipality.
2.3	Other hazards:
	Product fails to meet PBT/vPvB criteria

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Non-applicable

3.2 Mixture:

Chemical description: Aqueous solution of organic and inorganic compounds, containing surfactants, enymes and glycolethers.

Components:

None of the substances contained in the mixture are above the values fixed in Annex II of The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

Consult a doctor in case of discomfort showing the SDS for the product.

By inhalation:

In case of symptoms, move the person affected into fresh air.

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



Flowcell (Flush) Tether / Priming Tether

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SECT	ION 4: FIRST AID MEASURES (continued)				
	By eye contact:				
	Rinse with water until the product has been eliminated. In case of problems, consult a doctor showing the SDS for the product.				
	By ingestion/aspiration:				
	In case of consumption in large quantities, it is recommended to seek medical assistance.				
4.2	Most important symptoms and effects, both acute and delayed:				
	Acute and delayed effects are indicated in sections 2 and 11.				
4.3	Indication of any immediate medical attention and special treatment needed:				
	Non-applicable				

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

Product is non-flammable, with a low risk of fire due to the flammability characteristics of the product in normal conditions of storage, handling and use. In the case of the existence of sustained combustion as a result of improper handling, storage or use any type of extinguishing agent can be used (ABC Powder, water,...)

Unsuitable extinguishing media:

Non-applicable

5.2 Special hazards arising from the substance or mixture:

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

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,...). 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.

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



Flowcell (Flush) Tether / Priming Tether

SEC	TION 7: HANDLIN	G AND STORAGE (continued)			
	Maintain order, c	current legislation concerning the preven leanliness and dispose of using safe met mendations for the prevention of fires an			
	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				
		nk during the process, washing hands aft			
		mendations to prevent environmental risl			
	It is not necessary to take special measures to prevent environmental risks. For more information see subsection 6.2				
7.2 Conditions for safe storage, including any incompatibilities:					
	A Technical measu				
	Maximum time:	12 Months			
	B General condition				
		5	tact with food. For additional information see subsection 10.5		
7.3	Specific end use(s)				
7.5			y to provide any special recommendation regarding the uses of this		
	product.	clions already specified it is not necessal	y to provide any special recommendation regarding the uses of this		
SEC	TION 8: EXPOSUR	RE CONTROLS/PERSONAL PRO	TECTION		
8.1	Control parameters	:			
	Substances whose of	occupational exposure limits have to be n	nonitored in the workplace:		
	There are no applica	ble occupational exposure limits for the s	substances contained in the product		
8.2	Exposure controls:				
	A Individual protect	ion measures, such as personal protecti	ve equipment		
	As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding < <ukca marking="">>. 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</ukca>				
	The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.				
	C - Specific protection	C Specific protection for the hands			
	Pictogram	PPE	Remarks		
	Mandatory hand protection	Chemical protective gloves	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	Remarks		
	Mandatory face	Panoramic glasses against splash/projections.	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.		
	E Body protection				
	E Body protection				



Flowcell (Flush) Tether / Priming Tether

CTION 8: EXPOSURE CONTROLS/PERSO	DNAL PROTECTION (continued)
Pictogram PPE	Remarks
Work clothing	Replace before any evidence of deterioration. For periods of prolonged expo to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN 13688:2013, EN 464:1994.
F Additional emergency measures	
It is not necessary to take additional emerge	ency measures.
Environmental exposure controls:	
In accordance with the community legislation for spillage of both the product and its container. For	r the protection of the environment it is recommended to avoid environmental or additional information see subsection 7.1.D
CTION 9: PHYSICAL AND CHEMICAL PRO	OPERTIES
Information on basic physical and chemical	properties:
For complete information see the product datasl	heet.
Appearance:	
Physical state at 20 °C:	Liquid
Appearance:	Colorless
Colour:	Not available
Odour:	Not available
Odour threshold:	Non-applicable *
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:	Non-applicable *
Product description:	
Density at 20 °C:	1031.9 kg/m ³
Relative density at 20 °C:	1.032
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:	Completely miscible
Decomposition temperature:	Non-applicable *
Melting point/freezing point:	Non-applicable *
Flammability:	
Flash Point:	Non Flammable (>60 °C)
Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	Non-applicable *

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



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SECTION 9: PHYSICAL AND CHEMICAL PROPER			RTIES (continued)
	Upper flammability limit:		Non-applicable *
	Particle charac	cteristics:	
	Median equival	ent diameter:	Non-applicable
9.2	Other informat	tion:	
	Information wi	th regard to physical hazard classes	S:
Explosive properties:		erties:	Non-applicable *
	Oxidising properties: Corrosive to metals: Heat of combustion:		Non-applicable *
			Non-applicable *
			Non-applicable *
	Aerosols-total p components:	percentage (by mass) of flammable	Non-applicable *
Other safety characteristics:		haracteristics:	
	Surface tension	n at 20 °C:	Non-applicable *
	Refraction inde	x:	Non-applicable *
*Not relevant due to the nature of the product, not providing inform		o the nature of the product, not providing inform	nation 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 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:

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, carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

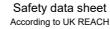
11.1 Information on toxicological effects:

LD50 oral > 2000 mg/kg (rat)

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
 - Corrosivity/Irritability: Based on available data, the classification criteria are not met
- B- Inhalation (acute effect):



NANOPORE

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ECTION 11: TO		continued)		
- Corrosiv	xicity :Based on available data, the clas ity/Irritability: Based on available data, th h the skin and the eyes (acute effect):	the classification criteria are not met		
- Contact	with the skin: Based on available data, t with the eyes: Based on available data, ts (carcinogenicity, mutagenicity and tox	a, the classification criteria are not met		
IARC: No - Mutager	genicity: Based on available data, the cla on-applicable nicity: Based on available data, the class nctive toxicity: Based on available data, t effects:	ssification criteria are not met		
- Skin: Ba	ory: Based on available data, the classif sed on available data, the classification get organ toxicity (STOT) - single expos	n criteria are not met		
Based on a	Based on available data, the classification criteria are not met			
G- Specific tar	get organ toxicity (STOT)-repeated expo	posure:		
- Skin: Ba hazardous H- Aspiration	sed on available data, the classification for this effect. For more information see			
Other informa				
Non-applicable				
-	ology information on the substances:	5.		
Not available				
Acute Toxicit	y Estimate (ATE mix):			
	ATE mix	Ingredient(s) of unknown toxicity		
Oral	>5000 mg/kg (Calcula			
Dermal	>5000 mg/kg (Calcula	ulation method) Non-applicable		

SECTION 12: ECOLOGICAL INFORMATION

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

>20 mg/L (4 h) (Calculation method)

Non-applicable

12.1 Toxicity:

Inhalation

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



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Printing: 19/06/2023 Date of compilation: 14/03/2022 Version: 1 SECTION 13: DISPOSAL CONSIDERATIONS 13.1 Waste treatment methods: Code Description Waste class 16 05 09 discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08 Non dangerous Type of waste: Non-applicable Non-applicable

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance The Waste Regulations 2011, 2011 No. 988. As under 15 01 of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of UK REACH the provisions related to waste management are stated:

UK legislation: The Waste Regulations 2011.

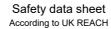
SECTION 14: TRANSPORT INFORMATION

Other information:

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID). Transport of dangerous goods by land:

With regard to ADR 2021 and RID 2021:

withtege	IN 10 ADIX 2021 and RID 2021.	
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	
	Tunnel restriction code:	Non-applicable
	Physico-Chemical properties:	see section 9
14.7	Transport in bulk according to	Non-applicable
	Annex II of Marpol and the IBC	
	Code:	
Transpo	rt of dangerous goods by sea:	
With rega	rd to IMDG 40-20:	
14.1	UN number:	Non-applicable
14.1		NULL-ADDILLADIE
14.2	UN proper chipping pame	
14.2	UN proper shipping name:	Non-applicable
14.2 14.3	Transport hazard class(es):	Non-applicable Non-applicable
14.3	Transport hazard class(es): Labels:	Non-applicable Non-applicable Non-applicable
14.3 14.4	Transport hazard class(es): Labels: Packing group:	Non-applicable Non-applicable Non-applicable Non-applicable
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant:	Non-applicable Non-applicable Non-applicable
14.3 14.4	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user	Non-applicable Non-applicable Non-applicable Non-applicable No
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations:	Non-applicable Non-applicable Non-applicable Non-applicable
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes:	Non-applicable Non-applicable Non-applicable No No Non-applicable
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties:	Non-applicable Non-applicable Non-applicable No Non-applicable see section 9
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities:	Non-applicable Non-applicable Non-applicable No Non-applicable see section 9 Non-applicable
14.3 14.4 14.5 14.6	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group:	Non-applicable Non-applicable Non-applicable No Non-applicable see section 9 Non-applicable Non-applicable
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group: Transport in bulk according to	Non-applicable Non-applicable Non-applicable No Non-applicable see section 9 Non-applicable
14.3 14.4 14.5 14.6	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group:	Non-applicable Non-applicable Non-applicable No Non-applicable see section 9 Non-applicable Non-applicable
14.3 14.4 14.5 14.6	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group: Transport in bulk according to Annex II of Marpol and the IBC	Non-applicable Non-applicable Non-applicable No Non-applicable see section 9 Non-applicable Non-applicable
14.3 14.4 14.5 14.6 14.7 Transpor	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group: Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicable Non-applicable Non-applicable No Non-applicable see section 9 Non-applicable Non-applicable



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SECTION 14:	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:				
	SECTION 15: REGULATORY INFORMATION				

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

- Substances listed in UK candidate list of substances of very high concern (SVHCs): Non-applicable

- Substances listed in UK REACH Authorisation List (Annex 14): Non-applicable

Restrictions to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII UK 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 REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2020.

Control of Substances Hazardous to Health Regulations 2002 (as amended) EH40/2005 Workplace exposure limits.

. . . .

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

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

GB CLP Regulation:

Non-applicable

Classification procedure:

Non-applicable

Advice related to training:

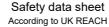
Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

http://echa.europa.eu

http://eur-lex.europa.eu

Abbreviations and acronyms:



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SE	CTION 16: OTHER INFORMATION (continued)
	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 UK, 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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SEC	CTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1	Product identifier: Fragmentation Mix
	Other means of identification:
	FRM
1.2	Relevant identified uses of the substance or mixture and uses advised against:
	Relevant uses: Research use 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:
1.0	Oxford Nanopore Technologies
	Gosling Building, Edmund Halley Road, Oxford Science Park
	OX4 4DQ Oxford - Oxon - England
	Phone: +44 (0)845 034 7900 - Fax: +44 (0)845 034 7901 http://www.nanoporetech.com/
1.4 SE(Emergency telephone number: +44 (0)845 034 7900 (9am-5:30pm GMT)
	Emergency telephone number: +44 (0)845 034 7900 (9am-5:30pm GMT) CTION 2: HAZARDS IDENTIFICATION Classification of the substance or mixture:
SEC	Emergency telephone number: +44 (0)845 034 7900 (9am-5:30pm GMT) CTION 2: HAZARDS IDENTIFICATION Classification of the substance or mixture: GB CLP Regulation:
SEC	Emergency telephone number: +44 (0)845 034 7900 (9am-5:30pm GMT) CTION 2: HAZARDS IDENTIFICATION Classification of the substance or mixture:
SE(2.1	Emergency telephone number: +44 (0)845 034 7900 (9am-5:30pm GMT) CTION 2: HAZARDS IDENTIFICATION Classification of the substance or mixture: GB CLP Regulation: The product is not classified as hazardous according to GB CLP Regulation.
SEC 2.1	Emergency telephone number: +44 (0)845 034 7900 (9am-5:30pm GMT) CTION 2: HAZARDS IDENTIFICATION Classification of the substance or mixture: GB CLP Regulation: The product is not classified as hazardous according to GB CLP Regulation. Label elements:
SE(2.1	Emergency telephone number: +44 (0)845 034 7900 (9am-5:30pm GMT) CTION 2: HAZARDS IDENTIFICATION Classification of the substance or mixture: GB CLP Regulation: The product is not classified as hazardous according to GB CLP Regulation. Label elements: GB CLP Regulation:
SEC 2.1	Emergency telephone number: +44 (0)845 034 7900 (9am-5:30pm GMT) CTION 2: HAZARDS IDENTIFICATION Classification of the substance or mixture: GB CLP Regulation: The product is not classified as hazardous according to GB CLP Regulation. Label elements: GB CLP Regulation: Hazard statements:
SEC 2.1	Emergency telephone number: +44 (0)845 034 7900 (9am-5:30pm GMT) CTION 2: HAZARDS IDENTIFICATION Classification of the substance or mixture: GB CLP Regulation: The product is not classified as hazardous according to GB CLP Regulation. Label elements: GB CLP Regulation: Hazard statements: Non-applicable
SEC 2.1 2.2	Emergency telephone number: +44 (0)845 034 7900 (9am-5:30pm GMT) CTION 2: HAZARDS IDENTIFICATION Classification of the substance or mixture: GB CLP Regulation: The product is not classified as hazardous according to GB CLP Regulation. Label elements: GB CLP Regulation: Hazard statements: Non-applicable Precautionary statements: P101: If medical advice is needed, have product container or label at hand. P102: Keep out of reach of children. P501: Dispose of the contents and/or its container using the separate collection system in your municipality.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Non-applicable

3.2 Mixture:

Chemical description: Aqueous solution of organic and inorganic compounds, containing surfactants, enymes and glycolethers.

Components:

In accordance with Annex II of The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020, the product contains:

	Identification	Chemical name/Classification	Concentration
CAS:	56-81-5	Glycerol	25 - <50 %
To ob	tain more informat	ion on the hazards of the substances consult sections 11, 12 and 16.	

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:**



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SECTION 4: FIRST AID MEASURES (continued)

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:

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:

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,...). Additional provisions:

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

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

For emergency responders:

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

6.2 Environmental precautions:

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

6.3 Methods and material for containment and cleaning up:

It is recommended:

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



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SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

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

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 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

Maximum time: 12 Months

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:

EH40/2005 Workplace exposure limits, fourth edition, published 2020:						
Identification Occupational exposure limits						
Glycerol	WEL (8h)	10 mg/m ³				
CAS: 56-81-5	WEL (15 min)					

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 <<UKCA marking>>. 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	Remarks					
Mandatory hand protection	Chemical protective gloves	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.							



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SEC	TION 8: EXPOSUR		OLS/PERSONAL PRO	TECTION (continu	ued)	
	D Eye and face prot	ection				
	Pictogram		PPE		Re	marks
	Mandatory face protection		asses against splash/projections.	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.		
	E Body protection					
	Pictogram		PPE		Re	marks
			Work clothing	to the product for pr	rofessional/indu ulations in EN IS	oration. For periods of prolonged exposure strial users CE III is recommended, in SO 6529:2013, EN ISO 6530:2005, EN ISO , EN 464:1994.
	F Additional emerge	ency measu	res			
	Emergency mea	asure	Standards	Emergency n	neasure	Standards
	Emergency sho	ower	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:20	11 Eyewash st	tations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
	Environmental expo	sure contro	ols:			
						ended to avoid environmental
	spillage of both the p	roduct and it	s container. For additional in	nformation see subse	ction 7.1.D	
050						
			EMICAL PROPERTIES			
9.1			and chemical properties:			
	For complete informa	tion see the	product datasneet.			
	Appearance: Physical state at 20 °	C.	Liqu	id		
	Appearance:	0.		rless		
	Colour:			ourless		
	Odour:			urless		
	Odour threshold:			-applicable *		
	Volatility:					
	Boiling point at atmos	pheric pres	sure: 100	°C		
	Vapour pressure at 2	0 °C:	2350) Pa		
	Vapour pressure at 5	0 °C:	1238	31.01 Pa (12.38 kPa))	
	Evaporation rate at 2	0 °C:	Non	-applicable *		
	Product description	:				
	Density at 20 °C:		1139	9.7 kg/m³		
	Relative density at 20	•C:	1.14			
	Dynamic viscosity at	20 °C:	Non	-applicable *		
	Kinematic viscosity a	t 20 °C:	Non	-applicable *		
	Kinematic viscosity a	t 40 °C:	Non	-applicable *		
	Concentration:			-applicable *		
	pH:			-applicable *		
	Vapour density at 20			-applicable *		
	Partition coefficient n			-applicable *		
	*Not relevant due to the n	ature of the pro	oduct, not providing information pro	operty of its hazards.		



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SEC	TION 9: PHYS	ICAL AND CHEMICAL PROPER	RTIES (continued)
	Solubility in wat	er at 20 ºC:	Non-applicable *
	Solubility prope	rties:	Completely miscible
	Decomposition	temperature:	Non-applicable *
	Melting point/fre	eezing point:	Non-applicable *
	Flammability:		
	Flash Point:		Non Flammable (>60 °C)
	Flammability (se	olid, gas):	Non-applicable *
	Autoignition terr	nperature:	Non-applicable *
	Lower flammab	ility limit:	Non-applicable *
	Upper flammab	ility limit:	Non-applicable *
	Particle characteristics:		
	Median equivale	ent diameter:	Non-applicable
9.2	Other informat	ion:	
	Information wi	th regard to physical hazard classe	S:
	Explosive prope	erties:	Non-applicable *
	Oxidising prope	rties:	Non-applicable *
	Corrosive to metals:		Non-applicable *
	Heat of combus	stion:	Non-applicable *
	Aerosols-total percentage (by mass) of flammable components:		Non-applicable *
	Other safety cl	haracteristics:	
	Surface tension	at 20 °C:	Non-applicable *
	Refraction index	к:	Non-applicable *
	*Not relevant due te	o the nature of the product, not providing inform	nation 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 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:

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, carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION



ing:	19/06/2023	Date of compilation: 19/0	6/2023	Version: 1				
ECT	TON 11: TOXI	COLOGICAL INFORM	ATION (con	tinued)				
.1	Information on	toxicological effects:						
	The experimenta	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 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): 							
	as hazardous - Corrosivity classified as	city : Based on available d s for inhalation. For more ir //Irritability: Based on avail hazardous for this effect. F the skin and the eyes (acu	nformation see able data, the for more inforr	e section 3. classification crite	ria are not met, a			
	 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. CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction): 							
	 Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3. IARC: Non-applicable Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3. Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3. Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3. E- Sensitizing effects: 						ces classified as	
	hazardous w - Skin: Base hazardous fo F- Specific targe Based on av	y: Based on available data ith sensitising effects. For ed on available data, the cl or this effect. For more infor et organ toxicity (STOT) - s ailable data, the classification or more information see se	more informati assification cri mation see se ingle exposur on criteria are	ion see section 3. iteria are not met, a ection 3. e:	as it does not cor	tain substances class	ified as	
	 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 substances classified as hazardous for this effect. For more information see section 3. H- Aspiration hazard: 							
	this effect. Fo	Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3. Other information:						
	Non-applicable							
	Specific toxicol	ogy information on the s	ubstances:					
		Identification			Ac	ute toxicity	Genus	
	Glycerol				LD50 oral	27200 mg/kg	Rat	
	CAS: 56-81-5				LD50 dermal	>2000 mg/kg	Guinean pig	
		Estimato (ATE mix):			LC50 inhalation	>5.85 mg/L (6 h)	Rat	
		Estimate (ATE mix):	E mix			Ingredient(s) of unknow	wn toxicity	



Fragmentation Mix

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	SECTION 11: TOXICOLOGICAL INFORMATION (continued)					
	Oral		>5000 mg/kg (Calculation	on method)	Non-applicable	
	Dermal		>5000 mg/kg (Calculation	on method)	Non-applicable	
	Inhalation		>20 mg/L (4 h) (Calcula	tion method)	Non-applicable	

SECTION 12: ECOLOGICAL INFORMATION

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

12.1 Toxicity:

Not available

12.2 Persistence and degradability:

Substance-specific information:

Identification	Degradability		Biodegradability	
Glycerol	BOD5	Non-applicable	Concentration	100 mg/L
CAS: 56-81-5	COD	Non-applicable	Period	14 days
	BOD5/COD	Non-applicable	% Biodegradable	63 %

12.3 Bioaccumulative potential:

Substance-specific information:

Identification	Bioaccumulation potential	
Glycerol	BCF	3
CAS: 56-81-5	Pow Log	-1.76
	Potential	Low

12.4 Mobility in soil:

Identification	Absorpt	Absorption/desorption		Volatility	
Glycerol	Koc	Non-applicable	Henry	Non-applicable	
CAS: 56-81-5	Conclusion	Non-applicable	Dry soil	Non-applicable	
	Surface tension	6.516E-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
16 05 09	discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08	Non dangerous

Type of waste:

Non-applicable

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance The Waste Regulations 2011, 2011 No. 988. As under 15 01 of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of UK REACH the provisions related to waste management are stated:

UK legislation: The Waste Regulations 2011.

SECTION 14: TRANSPORT INFORMATION



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SECTION 14:	TRANSPORT INFORMATION	N (continued)	
Other information: The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID). Transport of dangerous goods by land: With regard to ADR 2021 and RID 2021:			
14.1 UN number: 14.2 UN proper shipping name: 14.3 Transport hazard class(es): Labels: 14.4 Packing group:		Non-applicable Non-applicable Non-applicable Non-applicable Non-applicable	
14.5	Environmental hazards: Special precautions for user Tunnel restriction code: Physico-Chemical properties:	No Non-applicable see section 9	
14.7	Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicable	
Transpo	rt of dangerous goods by sea:		
With rega	ard to IMDG 40-20:		
	UN number:	Non-applicable	
14.3	UN proper shipping name: Transport hazard class(es): Labels:	Non-applicable Non-applicable Non-applicable	
	Packing group:	Non-applicable	
14.5 14.6	Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties:	No Non-applicable see section 9	
	Limited quantities: Segregation group:	Non-applicable Non-applicable	
14.7	Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicable	
Transpo	rt of dangerous goods by air:		
With rega	ard to IATA/ICAO 2023:		
	UN number:	Non-applicable	
14.2	UN proper shipping name:	Non-applicable	
14.3	Transport hazard class(es): Labels:	Non-applicable Non-applicable	
14.4	Packing group:	Non-applicable	
14.5	Environmental hazards:	No	
14.6	Special precautions for user		
14.7	Physico-Chemical properties: Transport in bulk according to Annex II of Marpol and the IBC Code:	see section 9 Non-applicable	

SECTION 15: REGULATORY INFORMATION

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

- Substances listed in UK candidate list of substances of very high concern (SVHCs): Non-applicable - Substances listed in UK REACH Authorisation List (Annex 14): Non-applicable

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

Non-applicable



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SECTION 15: REGULATORY INFORMATION (continued)

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 REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2020.

Control of Substances Hazardous to Health Regulations 2002 (as amended)

EH40/2005 Workplace exposure limits.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

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

GB CLP Regulation:

Non-applicable

Classification procedure:

Non-applicable

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 UK, 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.



Library Beads

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SEC	TION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING				
1.1	Product identifier: Library Beads				
	Other means of identification:				
	LIB				
1.2	Relevant identified uses of the substance or mixture and uses advised against:				
	Relevant uses: Research use 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:				
	Oxford Nanopore Technologies Gosling Building, Edmund Halley Road, Oxford Science Park OX4 4DQ Oxford - Oxon - England				
	Phone: +44 (0)845 034 7900 - Fax: +44 (0)845 034 7901 http://www.nanoporetech.com/				
1.4	Emergency telephone number: +44 (0)845 034 7900 (9am-5:30pm GMT)				
SEC	TION 2: HAZARDS IDENTIFICATION				
2.1	Classification of the substance or mixture: GB CLP Regulation:				

The product is not classified as hazardous according to GB CLP Regulation.

2.2 Label elements:

GB CLP Regulation:

Hazard statements:

Non-applicable

Precautionary statements:

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

P501: Dispose of the contents and/or its container using the separate collection system in your municipality.

2.3 Other hazards:

Product fails to meet PBT/vPvB criteria

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Non-applicable

3.2 Mixture:

Chemical description: Aqueous solution of organic and inorganic compounds, containing surfactants, enymes and glycolethers.

Components:

None of the substances contained in the mixture are above the values fixed in Annex II of The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

Consult a doctor in case of discomfort showing the SDS for the product.

By inhalation:

In case of symptoms, move the person affected into fresh air.

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



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SECTION 4: FIRST AID MEASURES (continued)

By eye contact:

Rinse with water until the product has been eliminated. In case of problems, consult a doctor showing the SDS for the product.

By ingestion/aspiration:

In case of consumption in large quantities, it is recommended to seek medical assistance.

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

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

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

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

Product is non-flammable, with a low risk of fire due to the flammability characteristics of the product in normal conditions of storage, handling and use. In the case of the existence of sustained combustion as a result of improper handling, storage or use any type of extinguishing agent can be used (ABC Powder, water,...)

Unsuitable extinguishing media:

Non-applicable

5.2 Special hazards arising from the substance or mixture:

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

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,...). 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.

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



SEC	TION 7: HANDLIN	IG AND STORAGE (continued)				
	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					
	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.					
		mendations on general occupational hyg				
		nk during the process, washing hands aft				
	D Technical recommendations to prevent environmental risks It is not necessary to take special measures to prevent environmental risks. For more information see subsection 6.2					
.2						
.2		e storage, including any incompatibiliti	es.			
	A Technical measure	12 Months				
	Maximum time:	12				
	B General conditio	U U	test with food. For additional information and subsection 10 5			
	Specific end use(s		act with food. For additional information see subsection 10.5			
7.3	· ·	,	y to provide any special recommendation regarding the uses of this			
	product.	ictions already specified it is not necessar	y to provide any special recommendation regarding the uses of this			
	-					
SEC	TION 8: EXPOSU	RE CONTROLS/PERSONAL PRO	TECTION			
.1	Control parameters	e:				
	•	•. occupational exposure limits have to be m	ponitored in the workplace:			
		able occupational exposure limits for the s				
3.2	Exposure controls		substances contained in the product			
. .2	•	• tion measures, such as personal protectiv	(o oguipment			
	As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding < <ukca marking="">>. 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</ukca>					
	The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.					
	C Specific protection	on for the hands				
	Pictogram	PPE	Remarks			
	Mandatory hand protection	Chemical protective gloves	Replace the gloves at any sign of deterioration.			
	As the product is	nd has therefore to be checked prior to the	istance of the glove material can not be calculated in advance with e application.			
	Pictogram	PPE	Remarks			
	Mandatory face protection	Panoramic glasses against splash/projections.	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.			
	E Body protection	1	1			



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SECTION	SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)						
	Pictogram	PPE	Remarks				
		Work clothing	Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994.				
F	Additional emerge	ency measures	·				

It is not necessary to take additional emergency measures.

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

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:	Liquid
Appearance:	Colorless
Colour:	Colourless
Odour:	Odourless
Odour threshold:	Non-applicable *
Volatility:	
Boiling point at atmospheric pressure:	100 °C
Vapour pressure at 20 ºC:	2350 Pa
Vapour pressure at 50 ºC:	12381.01 Pa (12.38 kPa)
Evaporation rate at 20 ºC:	Non-applicable *
Product description:	
Density at 20 °C:	1043 kg/m ³
Relative density at 20 °C:	1.043
Dynamic viscosity at 20 ºC:	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 *
Flammability:	
Flash Point:	Non Flammable (>60 °C)
Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	Non-applicable *
Lower flammability limit:	Non-applicable *
*Not relevant due to the nature of the product, not providing inform	ation property of its hazards.



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SECTION 9: PHYSICAL AND CHEMICAL PROPER		CHEMICAL PROPER	RTIES (continued)
	Upper flammability limit:		Non-applicable *
	Particle characteristics:		
	Median equivalent diameter:		Non-applicable
9.2	Other information:		
	Information with regard to p	hysical hazard classes	S:
	Explosive properties:		Non-applicable *
	Oxidising properties:		Non-applicable *
	Corrosive to metals:		Non-applicable *
	Heat of combustion:		Non-applicable *
	Aerosols-total percentage (by mass) of flammable components:		Non-applicable *
	Other safety characteristics:		
	Surface tension at 20 °C:		Non-applicable *
	Refraction index:		Non-applicable *
	*Not relevant due to the nature of the	e product, not providing inform	nation 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 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:

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, carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

LD50 oral > 2000 mg/kg (rat)

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
 - Corrosivity/Irritability: Based on available data, the classification criteria are not met
- B- Inhalation (acute effect):



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CTION 11: TO	XICOLOGICAL INFORMATION (continued)	
- Corrosi	oxicity :Based on available data, the cla vity/Irritability: Based on available data, t ith the skin and the eyes (acute effect):		
- Contac	t with the skin: Based on available data, t with the eyes: Based on available data cts (carcinogenicity, mutagenicity and to:	, the classification criteria are	
 Carcinogenicity: Based on available data, the classification criteria are not met IARC: Non-applicable Mutagenicity: Based on available data, the classification criteria are not met Reproductive toxicity: Based on available data, the classification criteria are not met Sensitizing effects: 			
 Respiratory: Based on available data, the classification criteria are not met Skin: Based on available data, the classification criteria are not met F- Specific target organ toxicity (STOT) - single exposure: Based on available data, the classification criteria are not met 			
G- Specific ta	Specific target organ toxicity (STOT)-repeated exposure:		
 Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria Skin: Based on available data, the classification criteria are not met, as it does not contain substances class hazardous for this effect. For more information see section 3. H- Aspiration hazard: Based on available data, the classification criteria are not met 			e data, the classification criteria are not met es not contain substances classified as
Other inform	ation:		
Non-applicab			
	Specific toxicology information on the substances:		
Not available			
Acute Toxici	ty Estimate (ATE mix):		
	ATE mix		Ingredient(s) of unknown toxicity
Oral	>5000 mg/kg (Calcu	,	Non-applicable
Dermal	>5000 mg/kg (Calcu	lation method)	Non-applicable

Non-applicable

SECTION 12: ECOLOGICAL INFORMATION

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

>20 mg/L (4 h) (Calculation method)

12.1 Toxicity:

Not available

Inhalation

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



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SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Code	Description	Waste class
16 05 09	discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08	Non dangerous

Type of waste:

Non-applicable

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance The Waste Regulations 2011, 2011 No. 988. As under 15 01 of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of UK REACH the provisions related to waste management are stated:

UK legislation: The Waste Regulations 2011.

SECTION 14: TRANSPORT INFORMATION

Other information:

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID). Transport of dangerous goods by land:

With regard to ADR 2021 and RID 2021:

wiintega	With regard to ADIX 2021 and IXID 2021.					
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					
	Tunnel restriction code:	Non-applicable				
	Physico-Chemical properties:	see section 9				
14.7	Transport in bulk according to	Non-applicable				
	Annex II of Marpol and the IBC					
	Code:					
Transpo	rt of dangerous goods by sea:					
With rega	rd to IMDG 40-20:					
14.1	UN number:	Non-applicable				
14.2	UN proper shipping name:	Non-applicable				
14.2 14.3	UN proper shipping name: Transport hazard class(es):	Non-applicable Non-applicable				
	Transport hazard class(es):	Non-applicable				
14.3	Transport hazard class(es): Labels:	Non-applicable Non-applicable				
14.3 14.4	Transport hazard class(es): Labels: Packing group:	Non-applicable Non-applicable Non-applicable				
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant:	Non-applicable Non-applicable Non-applicable				
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user	Non-applicable Non-applicable Non-applicable No				
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations:	Non-applicable Non-applicable Non-applicable No				
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes:	Non-applicable Non-applicable No No Non-applicable				
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties:	Non-applicable Non-applicable No Non-applicable No Non-applicable see section 9				
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group: Transport in bulk according to	Non-applicable Non-applicable No Non-applicable see section 9 Non-applicable Non-applicable				
14.3 14.4 14.5 14.6	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group:	Non-applicable Non-applicable No Non-applicable see section 9 Non-applicable Non-applicable				
14.3 14.4 14.5 14.6	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group: Transport in bulk according to Annex II of Marpol and the IBC	Non-applicable Non-applicable No Non-applicable see section 9 Non-applicable Non-applicable				
14.3 14.4 14.5 14.6 14.7 Transpor	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group: Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicable Non-applicable No Non-applicable see section 9 Non-applicable Non-applicable				



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SECTION 14:	TRANSPORT INFORMATION	N (continued)	
14.1	UN number:	Non-applicable	
14.2	UN proper shipping name:	Non-applicable	
14.3	Transport hazard class(es): Labels:	Non-applicable 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:		

SECTION 15: REGULATORY INFORMATION

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

- Substances listed in UK candidate list of substances of very high concern (SVHCs): Non-applicable
 - Substances listed in UK REACH Authorisation List (Annex 14): Non-applicable

Restrictions to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII UK 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 REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2020.

Control of Substances Hazardous to Health Regulations 2002 (as amended)

EH40/2005 Workplace exposure limits.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

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

GB CLP Regulation:

Non-applicable

Classification procedure:

Non-applicable

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:



Library Beads

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SECTION 16: OTHER INFORMATION (continued)

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 LC50: Lethal 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 UK, 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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SEC	TION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1	Product identifier: Library Solution
	Other means of identification:
	LIS
1.2	Relevant identified uses of the substance or mixture and uses advised against:
	Relevant uses: Research use 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:
	Oxford Nanopore Technologies Gosling Building, Edmund Halley Road, Oxford Science Park OX4 4DQ Oxford - Oxon - England Phone: +44 (0)845 034 7900 - Fax: +44 (0)845 034 7901 http://www.nanoporetech.com/
1.4	Emergency telephone number: +44 (0)845 034 7900 (9am-5:30pm GMT)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture: GB CLP Regulation:

The product is not classified as hazardous according to GB CLP Regulation.

2.2 Label elements:

GB CLP Regulation:

Hazard statements:

Non-applicable

Precautionary statements:

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

P501: Dispose of the contents and/or its container using the separate collection system in your municipality.

2.3 Other hazards:

Product fails to meet PBT/vPvB criteria

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Non-applicable

3.2 Mixture:

Chemical description: Aqueous solution of organic and inorganic compounds, containing surfactants, enymes and glycolethers.

Components:

None of the substances contained in the mixture are above the values fixed in Annex II of The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

Consult a doctor in case of discomfort showing the SDS for the product.

By inhalation:

In case of symptoms, move the person affected into fresh air.

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



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SECTION 4: FIRST AID MEASURES (continued)

By eye contact:

Rinse with water until the product has been eliminated. In case of problems, consult a doctor showing the SDS for the product.

By ingestion/aspiration:

In case of consumption in large quantities, it is recommended to seek medical assistance.

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

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

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

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

Product is non-flammable, with a low risk of fire due to the flammability characteristics of the product in normal conditions of storage, handling and use. In the case of the existence of sustained combustion as a result of improper handling, storage or use any type of extinguishing agent can be used (ABC Powder, water,...)

Unsuitable extinguishing media:

Non-applicable

5.2 Special hazards arising from the substance or mixture:

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

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,...). 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.

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



SEC	TION 7: HANDLIN	G AND STORAGE (continued)				
OLO						
	Maintain order, o	current legislation concerning the preven leanliness and dispose of using safe met mendations for the prevention of fires an				
	products. Consu	ed to transfer at a slow speed to avoid the It section 10 for conditions and materials mendations on general occupational hyg				
		Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.				
	D Technical recommendations to prevent environmental risks					
		·	nvironmental risks. For more information see subsection 6.2			
7.2		storage, including any incompatibiliti				
.2	A Technical measu					
	Maximum time:	12 Months				
	B General conditio					
		3	test with food. For additional information app subsection 10.5			
7.3			tact with food. For additional information see subsection 10.5			
1.5	Specific end use(s)		ry to provide any special recommendation regarding the uses of this			
	product.	clions already specified it is not necessar	by to provide any special recommendation regarding the uses of this			
SEC	TION 8: EXPOSU	RE CONTROLS/PERSONAL PRO	TECTION			
8.1	Control parameters	:				
	Substances whose of	occupational exposure limits have to be n	nonitored in the workplace:			
	There are no applica	ble occupational exposure limits for the s	substances contained in the product			
3.2	Exposure controls					
	A Individual protec	tion measures, such as personal protecti	ve equipment			
	As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding < <ukca marking="">>. 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</ukca>					
	The use of prote	The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.				
	C Specific protection					
	Pictogram	PPE	Remarks			
	Mandatory hand protection	Chemical protective gloves	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 an	d has therefore to be checked prior to the				
	D Eye and face pro					
	Pictogram	PPE	Remarks			
	Mandatory face protection	Panoramic glasses against splash/projections.	Clean daily and disinfect periodically according to the manufacturer´s instructions. Use if there is a risk of splashing.			
	E Body protection	1	1			
	· ·					



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SECTION	SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)					
	Pictogram	PPE	Remarks			
		Work clothing	Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994.			
F	F Additional emergency measures					

It is not necessary to take additional emergency measures.

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

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:	Liquid
Appearance:	Colorless
Colour:	Colourless
Odour:	Odourless
Odour threshold:	Non-applicable *
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:	Non-applicable *
Product description:	
Density at 20 °C:	1041.9 kg/m ³
Relative density at 20 °C:	1.042
Dynamic viscosity at 20 °C:	1.08 cP
Kinematic viscosity at 20 °C:	1.03 mm²/s
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 *
Flammability:	
Flash Point:	Non Flammable (>60 °C)
Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	Non-applicable *
Lower flammability limit:	Non-applicable *
*Not relevant due to the nature of the product, not providing inform	mation property of its hazards.



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SEC	TION 9: PHYS	ICAL AND CHEMICAL PROPE	RTIES (continued)
	Upper flammabi	ility limit:	Non-applicable *
	Particle charac	teristics:	
	Median equivale	ent diameter:	Non-applicable
9.2	Other informat	ion:	
	Information wit	th regard to physical hazard class	es:
	Explosive prope	erties:	Non-applicable *
	Oxidising prope	rties:	Non-applicable *
	Corrosive to me	tals:	Non-applicable *
	Heat of combus	tion:	Non-applicable *
	Aerosols-total p components:	ercentage (by mass) of flammable	Non-applicable *
	Other safety ch	naracteristics:	
	Surface tension	at 20 °C:	Non-applicable *
	Refraction index	<:	Non-applicable *
	*Not relevant due to	o the nature of the product, not providing info	rmation 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 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:

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, carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

LD50 oral > 2000 mg/kg (rat)

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
 - Corrosivity/Irritability: Based on available data, the classification criteria are not met
- B- Inhalation (acute effect):



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SECTION 11: TOXICOL	OGICAL INFORMATION (cont	tinued)	
- Corrosivity/Irrit	: Based on available data, the classif ability: Based on available data, the o skin and the eyes (acute effect):		et
 Contact with th 	e skin: Based on available data, the e eyes: Based on available data, the cinogenicity, mutagenicity and toxicit	classification criteria are not r	
IARC: Non-appl - Mutagenicity: E	Based on available data, the classific oxicity: Based on available data, the	ation criteria are not met	net
 Skin: Based on 	ased on available data, the classifica a available data, the classification crit gan toxicity (STOT) - single exposure	eria are not met	
Based on availab	le data, the classification criteria are	not met	
G- Specific target or	gan toxicity (STOT)-repeated exposu	re:	
- Skin: Based on	available data, the classification crit s effect. For more information see se	eria are not met, as it does no	a, the classification criteria are not met t contain substances classified as
Based on availab	le data, the classification criteria are	not met	
Other information:			
Non-applicable			
Specific toxicology	information on the substances:		
Not available			
Acute Toxicity Estin	nate (ATE mix):		
	ATE mix		Ingredient(s) of unknown toxicity
Oral	>5000 mg/kg (Calculation	n method)	Non-applicable

SECTION 12: ECOLOGICAL INFORMATION

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

>5000 mg/kg (Calculation method)

>20 mg/L (4 h) (Calculation method)

Non-applicable

Non-applicable

12.1 Toxicity:

Dermal

Inhalation

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



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SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Code	Description	Waste class
16 05 09	discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08	Non dangerous

Type of waste:

Non-applicable

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance The Waste Regulations 2011, 2011 No. 988. As under 15 01 of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of UK REACH the provisions related to waste management are stated:

UK legislation: The Waste Regulations 2011.

SECTION 14: TRANSPORT INFORMATION

Other information:

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID). Transport of dangerous goods by land:

With regard to ADR 2021 and RID 2021:

With regard to ADIX 2021 and IND 2021.				
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			
	Tunnel restriction code:	Non-applicable		
	Physico-Chemical properties:	see section 9		
14.7	Transport in bulk according to	Non-applicable		
	Annex II of Marpol and the IBC			
	Code:			
Transpor	t of dangerous goods by sea:			
With rega	rd to IMDG 40-20:			
14.1	UN number:	Non-applicable		
14.2	UN proper shipping name:	Non-applicable		
14.2 14.3	UN proper shipping name: Transport hazard class(es):	Non-applicable Non-applicable		
	Transport hazard class(es):	Non-applicable		
14.3	Transport hazard class(es): Labels:	Non-applicable Non-applicable		
14.3 14.4	Transport hazard class(es): Labels: Packing group:	Non-applicable Non-applicable Non-applicable		
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant:	Non-applicable Non-applicable Non-applicable		
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user	Non-applicable Non-applicable Non-applicable No		
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations:	Non-applicable Non-applicable Non-applicable No		
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes:	Non-applicable Non-applicable No No Non-applicable		
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties:	Non-applicable Non-applicable No Non-applicable No Non-applicable see section 9		
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group: Transport in bulk according to	Non-applicable Non-applicable No Non-applicable see section 9 Non-applicable Non-applicable		
14.3 14.4 14.5 14.6	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group:	Non-applicable Non-applicable No Non-applicable see section 9 Non-applicable Non-applicable		
14.3 14.4 14.5 14.6	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group: Transport in bulk according to Annex II of Marpol and the IBC	Non-applicable Non-applicable No Non-applicable see section 9 Non-applicable Non-applicable		
14.3 14.4 14.5 14.6 14.7 Transpor	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group: Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicable Non-applicable No Non-applicable see section 9 Non-applicable Non-applicable		



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SECTION 14:	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:	11				
SECTION 15:	REGULATORY INFORMATIC					

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

- Substances listed in UK candidate list of substances of very high concern (SVHCs): Non-applicable

- Substances listed in UK REACH Authorisation List (Annex 14): Non-applicable

Restrictions to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII UK 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 REACH etc. (Amendment etc.) (EU Exit) Regulations 2020. The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit)

Regulations 2020.

Control of Substances Hazardous to Health Regulations 2002 (as amended)

EH40/2005 Workplace exposure limits.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

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

GB CLP Regulation:

Non-applicable

Classification procedure:

Non-applicable

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:



Library Solution

Version: 1

SECTION 16: OTHER INFORMATION (continued)
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 Dose 50 LC50: Effective 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
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

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at UK, 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. - END OF SAFETY DATA SHEET -



Rapid Adapter

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1.1	Product identifier: Rapid Adapter
	Other means of identification:
	RA
1.2	Relevant identified uses of the substance or mixture and uses advised against:
	Relevant uses: Research use 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:
	Oxford Nanopore Technologies Gosling Building, Edmund Halley Road, Oxford Science Park OX4 4DQ Oxford - Oxon - England Phone: +44 (0)845 034 7900 - Fax: +44 (0)845 034 7901 http://www.nanoporetech.com/
1.4	Emergency telephone number: +44 (0)845 034 7900 (9am-5:30pm GMT)
SEC	TION 2: HAZARDS IDENTIFICATION
2.1	Classification of the substance or mixture:

GB CLP Regulation: The product is not classified as hazardous according to GB CLP Regulation.

2.2 Label elements:

GB CLP Regulation:

Hazard statements:

Non-applicable

Precautionary statements:

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

P501: Dispose of the contents and/or its container using the separate collection system in your municipality.

2.3 Other hazards:

Product fails to meet PBT/vPvB criteria

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Non-applicable

3.2 Mixture:

Chemical description: Aqueous solution of organic and inorganic compounds, containing surfactants, enymes and glycolethers.

Components:

None of the substances contained in the mixture are above the values fixed in Annex II of The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

Consult a doctor in case of discomfort showing the SDS for the product.

By inhalation:

In case of symptoms, move the person affected into fresh air.

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



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SECTION 4: FIRST AID MEASURES (continued)

By eye contact:

Rinse with water until the product has been eliminated. In case of problems, consult a doctor showing the SDS for the product.

By ingestion/aspiration:

In case of consumption in large quantities, it is recommended to seek medical assistance.

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

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

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

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

Product is non-flammable, with a low risk of fire due to the flammability characteristics of the product in normal conditions of storage, handling and use. In the case of the existence of sustained combustion as a result of improper handling, storage or use any type of extinguishing agent can be used (ABC Powder, water,...)

Unsuitable extinguishing media:

Non-applicable

5.2 Special hazards arising from the substance or mixture:

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

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,...). 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.

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



-		ate of compilation: 06/05/2022 Ve				
SEC	CTION 7: HANDLIN	G AND STORAGE (continued)				
	Maintain order, o	current legislation concerning the preven cleanliness and dispose of using safe me imendations for the prevention of fires ar	thods (section 6).	th regards manu	ually handling v	veights.
	products. Consu	ed to transfer at a slow speed to avoid th It section 10 for conditions and materials	that should be avoided.	charges that co	ould affect flam	imable
		mendations on general occupational hyg				
		nk during the process, washing hands af		aning products.		
		mendations to prevent environmental ris		oro information	and automation	
7.2		ry to take special measures to prevent e e storage, including any incompatibili			See Subsection	10.2
.2	A Technical measure					
	A Technical meas	12 Months				
	B General conditio					
		f heat, radiation, static electricity and cor	tact with food. For additio	nal information	see subsectio	n 10 5
7.3	Specific end use(s					
	•	ctions already specified it is not necessa	rv to provide any special i	recommendatio	n regarding the	e uses of this
	product.		.,			
SEC	CTION 8: EXPOSU	RE CONTROLS/PERSONAL PRC	TECTION			
	_					
3.1	Control parameters	s:				
8.1	Control parameters		nonitored in the workplac	e:		
3.1	Substances whose	occupational exposure limits have to be i		e:		
8.1	Substances whose				tional exposure lin	nits
3.1	Substances whose of EH40/2005 Workpla	occupational exposure limits have to be ce exposure limits, fourth edition, publish	ed 2020:	Occupa EL (8h)	tional exposure lin	nits 10 mg/m³
	Substances whose of EH40/2005 Workpla Glycerol CAS: 56-81-5	occupational exposure limits have to be n ce exposure limits, fourth edition, publish Identification	ed 2020:	Occupa	tional exposure lin	
8.1 8.2	Substances whose of EH40/2005 Workpla Glycerol CAS: 56-81-5 Exposure controls	cccupational exposure limits have to be a ce exposure limits, fourth edition, publish Identification	we 2020:	Occupa EL (8h)	tional exposure lir	
	Substances whose of EH40/2005 Workpla Glycerol CAS: 56-81-5 Exposure controls A Individual protect As a preventativ marking>>. For protection,) con information cont it is not known w	ccupational exposure limits have to be a ce exposure limits, fourth edition, publish Identification : tion measures, such as personal protect e measure it is recommended to use bas more information on Personal Protective insult the information leaflet provided by ained herein is a recommendation which thether the company has additional measure	ive equipment sic Personal Protective Eq Equipment (storage, use, the manufacturer. For mo needs some specificatior	Occupa EL (8h) EL (15 min) quipment, with th , cleaning, main ore information s	ne correspondi tenance, class ee subsection	10 mg/m³ ng < <ukca of 7.1. All</ukca
	Substances whose of EH40/2005 Workpla Glycerol CAS: 56-81-5 Exposure controls A Individual protect As a preventativ marking>>. For protection,) con information cont it is not known w B Respiratory protect	tion measures, such as personal protective e measure it is recommended to use bas more information on Personal Protective insult the information leaflet provided by ained herein is a recommendation which thether the company has additional meas ection	ive equipment sic Personal Protective Eq Equipment (storage, use, the manufacturer. For mon needs some specification sures at its disposal.	Occupa EL (8h) EL (15 min) quipment, with th , cleaning, main ore information s n from the labou	ne correspondi tenance, class æe subsection ır risk preventio	ng < <ukca of 7.1. All on services as</ukca
	Substances whose of EH40/2005 Workpla Glycerol CAS: 56-81-5 Exposure controls A Individual protect As a preventative marking>>. For protection,) co information cont it is not known w B Respiratory protect	ccupational exposure limits have to be a cce exposure limits, fourth edition, publish Identification tion measures, such as personal protect e measure it is recommended to use bas more information on Personal Protective insult the information leaflet provided by ained herein is a recommendation which thether the company has additional meas ection ction equipment will be necessary if a m	ive equipment sic Personal Protective Eq Equipment (storage, use, the manufacturer. For mon needs some specification sures at its disposal.	Occupa EL (8h) EL (15 min) quipment, with th , cleaning, main ore information s n from the labou	ne correspondi tenance, class æe subsection ır risk preventio	ng < <ukca of 7.1. All on services as</ukca
	Substances whose of EH40/2005 Workpla Glycerol CAS: 56-81-5 Exposure controls A Individual protect As a preventative marking>>. For protection,) co information cont it is not known w B Respiratory prot The use of protection	tion measures, such as personal protective more information on Personal protective insult the information leaflet provided by ained herein is a recommendation which thether the company has additional measure ection ction equipment will be necessary if a mon for the hands	ive equipment sic Personal Protective Eq Equipment (storage, use, the manufacturer. For mon needs some specification sures at its disposal.	Occupa EL (8h) EL (15 min) quipment, with th , cleaning, main re information s n from the labou ional exposure l	ne correspondi tenance, class æe subsection ır risk preventio	ng < <ukca of 7.1. All on services as</ukca
	Substances whose of EH40/2005 Workpla Glycerol CAS: 56-81-5 Exposure controls A Individual protect As a preventative marking>>. For protection,) co information cont it is not known w B Respiratory protect	ccupational exposure limits have to be a cce exposure limits, fourth edition, publish Identification tion measures, such as personal protect e measure it is recommended to use bas more information on Personal Protective insult the information leaflet provided by ained herein is a recommendation which thether the company has additional meas ection ction equipment will be necessary if a m	ive equipment ive equipment cic Personal Protective Eq Equipment (storage, use, the manufacturer. For mo needs some specification sures at its disposal.	Occupa EL (8h) EL (15 min) quipment, with th , cleaning, main ore information s n from the labou	ne correspondi tenance, class ee subsection ir risk preventio imits are excen	ng < <ukca of 7.1. All on services as</ukca
	Substances whose of EH40/2005 Workpla Glycerol CAS: 56-81-5 Exposure controls A Individual protect As a preventative marking>>. For in protection,) co information cont it is not known w B Respiratory prote The use of protection C Specific protection Pictogram Mandatory hand protection	coccupational exposure limits have to be a coccupational exposure limits, fourth edition, publish Identification control temporal relation control temporal protective control temporal temporal protective control temporal temporal protective control temporal te	ive equipment sic Personal Protective Eq Equipment (storage, use, the manufacturer. For mon needs some specification sures at its disposal. ist forms or if the occupation Replace the	Occupa EL (8h) EL (15 min) quipment, with th , cleaning, main ore information s in from the labour ional exposure l Remarks e gloves at any sign	ne correspondi tenance, class ee subsection ir risk prevention imits are excention	10 mg/m³ of 7.1. All on services as
	Substances whose of EH40/2005 Workpla Glycerol CAS: 56-81-5 Exposure controls A Individual protect As a preventative marking>>. For in protection,) con information cont it is not known w B Respiratory prote The use of protect C Specific protection Pictogram Mandatory hand protection As the product is	coccupational exposure limits have to be a coccupational exposure limits, fourth edition, publish Identification Identificatio Identification Identification Identificatio	ive equipment sic Personal Protective Eq Equipment (storage, use, the manufacturer. For mon needs some specification sures at its disposal. ist forms or if the occupati Replace the sistance of the glove mate	Occupa EL (8h) EL (15 min) quipment, with th , cleaning, main ore information s in from the labour ional exposure l Remarks e gloves at any sign	ne correspondi tenance, class ee subsection ir risk prevention imits are excention	10 mg/m³ of 7.1. All on services as
	Substances whose of EH40/2005 Workpla Glycerol CAS: 56-81-5 Exposure controls A Individual protect As a preventative marking>>. For in protection,) occ information cont it is not known w B Respiratory protect The use of protect C Specific protected Pictogram Pictogram As the product is total reliability ar	coccupational exposure limits have to be a coccupational exposure limits, fourth edition, publish Identification Identificatio Identification Identification Identificatio	ive equipment sic Personal Protective Eq Equipment (storage, use, the manufacturer. For mon needs some specification sures at its disposal. ist forms or if the occupati Replace the sistance of the glove mate	Occupa EL (8h) EL (15 min) quipment, with th , cleaning, main ore information s in from the labour ional exposure l Remarks e gloves at any sign	ne correspondi tenance, class ee subsection ir risk prevention imits are excention	10 mg/m³ of 7.1. All on services as eded.

E.- Body protection



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SECTION	N 8: EXPOSUR	E CONTROLS/PERSONAL PRO	TECTION (continued)
	Pictogram	PPE	Remarks
		Work clothing	Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994.
F.	Additional emerge	ancy measures	<u>`</u>

F.- Additional emergency measures

It is not necessary to take additional emergency measures.

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

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:	Liquid
Appearance:	Colorless
Colour:	Colourless
Odour:	Odourless
Odour threshold:	Non-applicable *
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:	Non-applicable *
Product description:	
Density at 20 °C:	1143.9 kg/m ³
Relative density at 20 °C:	1.144
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 ºC:	Non-applicable *
Partition coefficient n-octanol/water 20 °C:	Non-applicable *
Solubility in water at 20 °C:	Non-applicable *
Solubility properties:	Non-applicable *
Decomposition temperature:	Non-applicable *
Melting point/freezing point:	Non-applicable *
Flammability:	
Flash Point:	Non Flammable (>60 °C)
Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	Non-applicable *
Lower flammability limit:	Non-applicable *
*Not relevant due to the nature of the product, not providing inf	ormation property of its hazards.



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SEC	TION 9: PHYSICAL AND CHEMICAL F	ROPERTIES (continued)
	Upper flammability limit:	Non-applicable *
	Particle characteristics:	
	Median equivalent diameter:	Non-applicable
9.2	Other information:	
	Information with regard to physical hazar	d classes:
	Explosive properties:	Non-applicable *
	Oxidising properties:	Non-applicable *
	Corrosive to metals:	Non-applicable *
	Heat of combustion:	Non-applicable *
	Aerosols-total percentage (by mass) of flamm components:	nable Non-applicable *
	Other safety characteristics:	
	Surface tension at 20 °C:	Non-applicable *
	Refraction index:	Non-applicable *
	*Not relevant due to the nature of the product, not prov	iding 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 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:

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, carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

LD50 oral > 2000 mg/kg (rat)

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
 - Corrosivity/Irritability: Based on available data, the classification criteria are not met
- B- Inhalation (acute effect):



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TION 11: TO	XICOLOGICAL INFORMATION (co	ntinued)	
- Corrosiv	xicity :Based on available data, the class /ity/Irritability: Based on available data, the th the skin and the eyes (acute effect):		
- Contact	with the skin: Based on available data, th with the eyes: Based on available data, th ts (carcinogenicity, mutagenicity and toxic	he classification criteria are not met	
IARC: No - Mutager	genicity: Based on available data, the clas on-applicable nicity: Based on available data, the classif uctive toxicity: Based on available data, th geffects:	fication criteria are not met	
- Skin: Ba	tory: Based on available data, the classific used on available data, the classification c rget organ toxicity (STOT) - single exposu	riteria are not met	
Based on a	available data, the classification criteria ar	re not met	
G- Specific tar	rget organ toxicity (STOT)-repeated expo	sure:	
- Skin: Ba	ased on available data, the classification of for this effect. For more information see s	posure: Based on available data, the classification criteria riteria are not met, as it does not contain substances clas section 3.	
Based on a	available data, the classification criteria ar	re not met	
Other informa	ation:		
Non-applicable	a		
	ology information on the substances:		
Not available			
NUL AVAIIADIE			
Acute Toxicity	y Estimate (ATE mix):		
	ATE mix	Ingredient(s) of unknow	own toxicity
Oral	>5000 mg/kg (Calculati		
Dermal	>5000 mg/kg (Calculati	ion method) Non-applicable	
Inhalation	>20 mg/L (4 h) (Calcula	ation method) Non-applicable	

SECTION 12: ECOLOGICAL INFORMATION

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

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



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SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Code	Description	Waste class
16 05 09	discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08	Non dangerous

Type of waste:

Non-applicable

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance The Waste Regulations 2011, 2011 No. 988. As under 15 01 of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of UK REACH the provisions related to waste management are stated:

UK legislation: The Waste Regulations 2011.

SECTION 14: TRANSPORT INFORMATION

Other information:

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID). Transport of dangerous goods by land:

With regard to ADR 2021 and RID 2021:

withtege	IN 10 ADIX 2021 and RID 2021.	
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	
	Tunnel restriction code:	Non-applicable
	Physico-Chemical properties:	see section 9
14.7	Transport in bulk according to	Non-applicable
	Annex II of Marpol and the IBC	
	Code:	
Transpo	rt of dangerous goods by sea:	
With rega	rd to IMDG 40-20:	
14.1	UN number:	Non-applicable
14.2	UN proper shipping name:	Non-applicable
14.2 14.3	UN proper shipping name: Transport hazard class(es):	Non-applicable Non-applicable
	Transport hazard class(es):	Non-applicable
14.3	Transport hazard class(es): Labels:	Non-applicable Non-applicable
14.3 14.4	Transport hazard class(es): Labels: Packing group:	Non-applicable Non-applicable Non-applicable
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant:	Non-applicable Non-applicable Non-applicable
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user	Non-applicable Non-applicable Non-applicable No
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations:	Non-applicable Non-applicable Non-applicable No
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes:	Non-applicable Non-applicable No No Non-applicable
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties:	Non-applicable Non-applicable No Non-applicable No Non-applicable see section 9
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group: Transport in bulk according to	Non-applicable Non-applicable No Non-applicable see section 9 Non-applicable Non-applicable
14.3 14.4 14.5 14.6	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group:	Non-applicable Non-applicable No Non-applicable see section 9 Non-applicable Non-applicable
14.3 14.4 14.5 14.6	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group: Transport in bulk according to Annex II of Marpol and the IBC	Non-applicable Non-applicable No Non-applicable see section 9 Non-applicable Non-applicable
14.3 14.4 14.5 14.6 14.7 Transport	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group: Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicable Non-applicable No Non-applicable see section 9 Non-applicable Non-applicable



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SECTION 14:	TRANSPORT INFORMATION	N (continued)
14.1	UN number:	Non-applicable
14.2	UN proper shipping name:	Non-applicable
14.3	Transport hazard class(es): Labels:	Non-applicable 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:	

SECTION 15: REGULATORY INFORMATION

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

- Substances listed in UK candidate list of substances of very high concern (SVHCs): Non-applicable

- Substances listed in UK REACH Authorisation List (Annex 14): Non-applicable

Restrictions to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII UK 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 REACH etc. (Amendment etc.) (EU Exit) Regulations 2020. The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained

The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2020.

Control of Substances Hazardous to Health Regulations 2002 (as amended)

EH40/2005 Workplace exposure limits.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

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

GB CLP Regulation:

Non-applicable

Classification procedure:

Non-applicable

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:



Rapid Adapter

Printing: 19/06/2023	Date of compilation: 06/05/2022
----------------------	---------------------------------

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SECTION 16: OTHER INFORMATION (continu	ed)

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 LC50: Carnolwater 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 UK, 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. - END OF SAFETY DATA SHEET -



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1.1	Product identifier:	Rapid Barcode Primers
	Other means of identification	n:
	RLBxx	
1.2	Relevant identified uses of	he substance or mixture and uses advised against:
	Relevant uses: Research use	only
	Uses advised against: All use	s not specified in this section or in section 7.3
1.3	Details of the supplier of the	e safety data sheet:
1.4	OX4 4DQ Oxford - Oxon - En Phone: +44 (0)845 034 7900 http://www.nanoporetech.com Emergency telephone numb	ley Road, Oxford Science Park gland • Fax: +44 (0)845 034 7901 / per: +44 (0)845 034 7900 (9am-5:30pm GMT)
	CTION 2: HAZARDS IDENT	
2.1	Classification of the substa GB CLP Regulation:	nce or mixture:
	J	as hazardous according to GB CLP Regulation.
2.2	Label elements:	
	GB CLP Regulation:	
	Hazard statements:	
	Non-applicable	
	Precautionary statements:	
	r rooddalloniary olalonionion	

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

P501: Dispose of the contents and/or its container using the separate collection system in your municipality.

2.3 Other hazards:

Product fails to meet PBT/vPvB criteria

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Non-applicable

3.2 Mixture:

Chemical description: Aqueous solution of organic and inorganic compounds, containing surfactants, enymes and glycolethers.

Components:

None of the substances contained in the mixture are above the values fixed in Annex II of The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

Consult a doctor in case of discomfort showing the SDS for the product.

By inhalation:

In case of symptoms, move the person affected into fresh air.

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



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SECTION 4: FIRST AID MEASURES (continued)

By eye contact:

Rinse with water until the product has been eliminated. In case of problems, consult a doctor showing the SDS for the product.

By ingestion/aspiration:

In case of consumption in large quantities, it is recommended to seek medical assistance.

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

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

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

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

Product is non-flammable, with a low risk of fire due to the flammability characteristics of the product in normal conditions of storage, handling and use. In the case of the existence of sustained combustion as a result of improper handling, storage or use any type of extinguishing agent can be used (ABC Powder, water,...)

Unsuitable extinguishing media:

Non-applicable

5.2 Special hazards arising from the substance or mixture:

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

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,...). 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.

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



	TION 7: HANDLI	NG AND STORAGE (continued)	
	Maintain order,	e current legislation concerning the preve cleanliness and dispose of using safe me mmendations for the prevention of fires a	
	products. Cons	ult section 10 for conditions and material	
		mmendations on general occupational hy	Ifterwards with suitable cleaning products.
		mmendations to prevent environmental ri	
		·	environmental risks. For more information see subsection 6.2
7.2		fe storage, including any incompatibili	
1.2	A Technical mea		u c s.
	A Technical mea	6	
	B General condit		
			ntact with food. For additional information see subsection 10.5
7.3	Specific end use(nact with 1000. For additional mormation see subsection 10.5
7.5			ary to provide any special recommendation regarding the uses of this
050			
		JRE CONTROLS/PERSONAL PRO	DIECTION
8.1	Control paramete		maniferral in the supplication
		occupational exposure limits have to be	
• •		cable occupational exposure limits for the	substances contained in the product
8.2	Exposure control	s: ction measures, such as personal protec	
	marking>>. For protection,…) c information cor	more information on Personal Protective consult the information leaflet provided by tained herein is a recommendation which whether the company has additional mea	sic Personal Protective Equipment, with the corresponding < <ukca e Equipment (storage, use, cleaning, maintenance, class of the manufacturer. For more information see subsection 7.1. All n needs some specification from the labour risk prevention services as issures at its disposal.</ukca
	1 11		nist forms or if the occupational exposure limits are exceeded.
	C Specific protect		
		PPE	Demorie
	Pictogram	PPE	Remarks
	Mandatory hand protection	Chemical protective gloves	Replace the gloves at any sign of deterioration.
	As the product	and has therefore to be checked prior to t	esistance of the glove material can not be calculated in advance with he application.
	Pictogram	PPE	Remarks
		Panoramic glasses against splash/projections	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.
	Mandatory face protection		
	E Body protection		



CTION 8: EXPOSURE CONTROLS/PERS	ONAL PROTECTION (continued)
Pictogram PPE	Remarks
Work clothing	Replace before any evidence of deterioration. For periods of prolonged expositor to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN 13688:2013, EN 464:1994.
F Additional emergency measures	
It is not necessary to take additional emerge	ency measures.
Environmental exposure controls:	
In accordance with the community legislation for spillage of both the product and its container. F	or the protection of the environment it is recommended to avoid environmental For additional information see subsection 7.1.D
CTION 9: PHYSICAL AND CHEMICAL PR	OPERTIES
Information on basic physical and chemical	properties:
For complete information see the product datas	sheet.
Appearance:	
Physical state at 20 °C:	Liquid
Appearance:	Colorless
Colour:	Not available
Odour:	Not available
Odour threshold:	Non-applicable *
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 ºC:	Non-applicable *
Product description:	
Density at 20 °C:	1032 kg/m ³
Relative density at 20 °C:	1.032
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 ºC:	Non-applicable *
Partition coefficient n-octanol/water 20 °C:	Non-applicable *
Solubility in water at 20 °C:	Non-applicable *
Solubility properties:	Completely miscible
Decomposition temperature:	Non-applicable *
Melting point/freezing point:	Non-applicable *
Flammability:	
Flash Point:	Non Flammable (>60 °C)
Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	Non-applicable *

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



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SEC	TION 9: PHYSICAL AND CHEMICAL PR	OPERTIES (continued)
	Upper flammability limit:	Non-applicable *
	Particle characteristics:	
	Median equivalent diameter:	Non-applicable
9.2	Other information:	
	Information with regard to physical hazard c	asses:
	Explosive properties:	Non-applicable *
	Oxidising properties:	Non-applicable *
	Corrosive to metals:	Non-applicable *
	Heat of combustion:	Non-applicable *
	Aerosols-total percentage (by mass) of flammal components:	ble Non-applicable *
	Other safety characteristics:	
	Surface tension at 20 °C:	Non-applicable *
	Refraction index:	Non-applicable *
	*Not relevant due to the nature of the product, not providir	ng 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 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:

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, carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

LD50 oral > 2000 mg/kg (rat)

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
 - Corrosivity/Irritability: Based on available data, the classification criteria are not met
- B- Inhalation (acute effect):



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CTION 11: TOX	ICOLOGICAL INFORMATION (c	ontinued)	
 Corrosivi 	ticity : Based on available data, the clas ty/Irritability: Based on available data, th n the skin and the eyes (acute effect):		net
- Contact	with the skin: Based on available data, t with the eyes: Based on available data, s (carcinogenicity, mutagenicity and tox	the classification criteria are not	
IARC: No - Mutagen	enicity: Based on available data, the cla n-applicable icity: Based on available data, the class ctive toxicity: Based on available data, t effects:	ification criteria are not met	net
- Skin: Bas	ory: Based on available data, the classif sed on available data, the classification get organ toxicity (STOT) - single expos	criteria are not met	
Based on a	vailable data, the classification criteria a	ire not met	
G- Specific tar	get organ toxicity (STOT)-repeated expo	osure:	
- Skin: Bas	arget organ toxicity (STOT)-repeated e sed on available data, the classification for this effect. For more information see nazard:	criteria are not met, as it does no	
Based on a	vailable data, the classification criteria a	re not met	
Other informa	tion:		
Non-applicable			
Specific toxico	blogy information on the substances		
Not available			
Acute Toxicity	· Estimate (ATE mix):		
	ATE mix		Ingredient(s) of unknown toxicity
Oral	>5000 mg/kg (Calcula	tion method)	Non-applicable

SECTION 12: ECOLOGICAL INFORMATION

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

>5000 mg/kg (Calculation method)

>20 mg/L (4 h) (Calculation method)

Non-applicable

Non-applicable

12.1 Toxicity:

Dermal

Inhalation

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



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SECTION 13: DISPOSAL CONSIDERATIONS 13.1 Waste treatment methods: Code Description Waste class 16 05 09 discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08 Non dangerous

Type of waste:

Non-applicable

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance The Waste Regulations 2011, 2011 No. 988. As under 15 01 of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of UK REACH the provisions related to waste management are stated:

UK legislation: The Waste Regulations 2011.

SECTION 14: TRANSPORT INFORMATION

Other information:

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID). Transport of dangerous goods by land:

With regard to ADR 2021 and RID 2021:

withtege	IN 10 ADIX 2021 and RID 2021.	
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	
	Tunnel restriction code:	Non-applicable
	Physico-Chemical properties:	see section 9
14.7	Transport in bulk according to	Non-applicable
	Annex II of Marpol and the IBC	
	Code:	
Transpo	rt of dangerous goods by sea:	
With rega	ard to IMDG 40-20:	
14.1	UN number:	Non-applicable
14.2	UN proper shipping name:	Non-applicable
14.2 14.3	UN proper shipping name: Transport hazard class(es):	Non-applicable Non-applicable
	Transport hazard class(es):	Non-applicable
14.3	Transport hazard class(es): Labels:	Non-applicable Non-applicable
14.3 14.4	Transport hazard class(es): Labels: Packing group:	Non-applicable Non-applicable Non-applicable
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant:	Non-applicable Non-applicable Non-applicable
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user	Non-applicable Non-applicable Non-applicable No
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations:	Non-applicable Non-applicable Non-applicable No
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes:	Non-applicable Non-applicable Non-applicable No
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties:	Non-applicable Non-applicable No Non-applicable No Non-applicable see section 9
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group: Transport in bulk according to	Non-applicable Non-applicable No Non-applicable see section 9 Non-applicable
14.3 14.4 14.5 14.6	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group: Transport in bulk according to Annex II of Marpol and the IBC	Non-applicable Non-applicable No Non-applicable see section 9 Non-applicable Non-applicable
14.3 14.4 14.5 14.6	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group: Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicable Non-applicable No Non-applicable see section 9 Non-applicable Non-applicable
14.3 14.4 14.5 14.6 14.7 Transport	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group: Transport in bulk according to Annex II of Marpol and the IBC	Non-applicable Non-applicable No Non-applicable see section 9 Non-applicable Non-applicable



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SECTION 14:	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:					
L						

SECTION 15: REGULATORY INFORMATION

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

- Substances listed in UK candidate list of substances of very high concern (SVHCs): Non-applicable

- Substances listed in UK REACH Authorisation List (Annex 14): Non-applicable

Restrictions to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII UK 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 REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2020.

Control of Substances Hazardous to Health Regulations 2002 (as amended) EH40/2005 Workplace exposure limits.

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SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

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

GB CLP Regulation:

Non-applicable

Classification procedure:

Non-applicable

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:



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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 LC50: Lethal 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 UK, 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.



Sequencing Buffer / RNA Running Buffer

	g: 19/06/2023 Date of compilation: 14/03/2022 Revised: 08/04/2022 Version: 2 (Replaced 1)				
SEC	CTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTA	KING			
1.1	Product identifier: Sequencing Buffer / RNA Running Buffer				
	Other means of identification:				
	SQB, RRB, SB				
1.2	Relevant identified uses of the substance or mixture and uses advised against:				
	Relevant uses: Research use 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:				
	Oxford Nanopore Technologies Gosling Building, Edmund Halley Road, Oxford Science Park OX4 4DQ Oxford - Oxon - England Phone: +44 (0)845 034 7900 - Fax: +44 (0)845 034 7901 http://www.nanoporetech.com/				
1.4	Emergency telephone number: +44 (0)845 034 7900 (9am-5:30pm GMT)				
SEC	CTION 2: HAZARDS IDENTIFICATION				
SEC 2.1	CTION 2: HAZARDS IDENTIFICATION Classification of the substance or mixture:				
	Classification of the substance or mixture: GB CLP Regulation:				
2.1	Classification of the substance or mixture: GB CLP Regulation: The product is not classified as hazardous according to GB CLP Regulation.				
	Classification of the substance or mixture: GB CLP Regulation: The product is not classified as hazardous according to GB CLP Regulation. Label elements:				
2.1	Classification of the substance or mixture: GB CLP Regulation: The product is not classified as hazardous according to GB CLP Regulation. Label elements: GB CLP Regulation:				
2.1	Classification of the substance or mixture: GB CLP Regulation: The product is not classified as hazardous according to GB CLP Regulation. Label elements: GB CLP Regulation: Hazard statements:				
2.1	Classification of the substance or mixture: GB CLP Regulation: The product is not classified as hazardous according to GB CLP Regulation. Label elements: GB CLP Regulation: Hazard statements: Non-applicable				
2.1	Classification of the substance or mixture: GB CLP Regulation: The product is not classified as hazardous according to GB CLP Regulation. Label elements: GB CLP Regulation: Hazard statements: Non-applicable Precautionary statements:				
2.1	Classification of the substance or mixture: GB CLP Regulation: The product is not classified as hazardous according to GB CLP Regulation. Label elements: GB CLP Regulation: Hazard statements: Non-applicable				
2.1	Classification of the substance or mixture: GB CLP Regulation: The product is not classified as hazardous according to GB CLP Regulation. Label elements: GB CLP Regulation: Hazard statements: Non-applicable Precautionary statements: P101: If medical advice is needed, have product container or label at hand. P102: Keep out of reach of children.				

3.1 Substance:

Non-applicable

3.2 Mixture:

Chemical description: Aqueous solution of organic and inorganic compounds, containing surfactants, enymes and glycolethers.

Components:

None of the substances contained in the mixture are above the values fixed in Annex II of The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

Consult a doctor in case of discomfort showing the SDS for the product.

By inhalation:

In case of symptoms, move the person affected into fresh air.

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



Sequencing Buffer / RNA Running Buffer

-	: 19/06/2023 Date of compilation: 14/03/2022 Revised: 08/04/2022 Version: 2 (Replaced 1)				
SEC	CTION 4: FIRST AID MEASURES (continued)				
	By eye contact:				
	Rinse with water until the product has been eliminated. In case of problems, consult a doctor showing the SDS for the product.				
	By ingestion/aspiration:				
	In case of consumption in large quantities, it is recommended to seek medical assistance.				
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				
SEC	CTION 5: FIREFIGHTING MEASURES				
5.1	Extinguishing media:				
	Suitable extinguishing media:				
	Product is non-flammable, with a low risk of fire due to the flammability characteristics of the product in normal conditions of storage, handling and use. In the case of the existence of sustained combustion as a result of improper handling, storage or use any type of extinguishing agent can be used (ABC Powder, water,) Unsuitable extinguishing media:				
	Non-applicable				
5.2	Special hazards arising from the substance or mixture:				
	Due to its non-inflammable nature, the product does not present a fire risk under normal conditions of storage, handling and use.				
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,). 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 ar				
	aqueous medium.				
	aqueous medium. CTION 6: ACCIDENTAL RELEASE MEASURES				

For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task.

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:

- CONTINUED ON NEXT PAGE -

Revised: 08/04/2022



Sequencing Buffer / RNA Running Buffer

Printing	: 19/06/2023	Date of compilation: 1	4/03/2022	Revised: 08/04/2022	Version: 2 (Replaced 1)		
SEC	CTION 7: HANI	DLING AND STORA	GE (continued))			
	A General pr	ecautions for safe use					
	Maintain o	th the current legislation or rder, cleanliness and disp recommendations for the	ose of using safe	e methods (section 6).	s with regards manually handling weights.		
	products. C		iditions and mate	rials that should be avoid	static charges that could affect flammable led.		
	Do not eat	or drink during the proce	ss, washing hand	ds afterwards with suitable	e cleaning products.		
	D Technical ı	recommendations to prev	ent environmenta	al risks			
	It is not nee	cessary to take special m	easures to preve	nt environmental risks. F	or more information see subsection 6.2		
7.2	Conditions fo	r safe storage, includin	g any incompat	ibilities:			
	A Technical ı	measures for storage					
	Maximum	time: 12 Month	IS				
	B General co	onditions for storage					
	Avoid sour	ces of heat, radiation, sta	tic electricity and	contact with food. For ac	dditional information see subsection 10.5		
7.3	Specific end	Specific end use(s):					
	Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of product.						
SEC	CTION 8: EXPO	OSURE CONTROLS	PERSONAL F	PROTECTION			
8.1	Control paran	neters:					
	Substances wl	hose occupational expos	ure limits have to	be monitored in the work	xplace:		
	There are no a	applicable occupational e	xposure limits for	the substances containe	d in the product		
8.2	Exposure cor	ntrols:					
	A Individual protection measures, such as personal protective equipment						
	marking>> protection, information	. For more information or) consult the information or contained herein is a re- own whether the compan	Personal Protect n leaflet providect commendation w	tive Equipment (storage, I by the manufacturer. Fo hich needs some specific	re Equipment, with the corresponding < <ukca use, cleaning, maintenance, class of r more information see subsection 7.1. All cation from the labour risk prevention services as</ukca 		
	The use of	protection equipment wil	l be necessary if	a mist forms or if the occ	upational exposure limits are exceeded.		
	C Specific pro	otection for the hands					
	Pictogr	am	PPF		Remarks		

Pictogram	PPE	Remarks
Mandatory hand protection	Chemical protective gloves	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	Remarks
	Mandatory face protection	Panoramic glasses against splash/projections.	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.
E Bo	dy protection		



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CTION 8: EXPOSURE CONTROLS/PERS	ONAL PROTECTION (continued)
Pictogram PPE	Remarks
Work clothing	Replace before any evidence of deterioration. For periods of prolonged exposu to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN I 13688:2013, EN 464:1994.
F Additional emergency measures	
It is not necessary to take additional emerge	ency measures.
Environmental exposure controls:	
In accordance with the community legislation fo spillage of both the product and its container. Fo	r the protection of the environment it is recommended to avoid environmental or additional information see subsection 7.1.D
CTION 9: PHYSICAL AND CHEMICAL PR	OPERTIES
Information on basic physical and chemical	properties:
For complete information see the product datas	heet.
Appearance:	
Physical state at 20 °C:	Liquid
Appearance:	Colorless
Colour:	Colourless
Odour:	Odourless
Odour threshold:	Non-applicable *
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:	Non-applicable *
Product description:	
Density at 20 °C:	1105.7 kg/m³
Relative density at 20 °C:	1.106
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:	Completely miscible
Decomposition temperature:	Non-applicable *
Melting point/freezing point:	Non-applicable *
Flammability: Flash Point:	Non Flammable (S60 90)
	Non Flammable (>60 °C)
Flammability (solid, gas):	Non-applicable *
Autoignition temperature: Lower flammability limit:	Non-applicable * Non-applicable *

- CONTINUED ON NEXT PAGE -

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SECTION 9: PHYSICAL AND CHEMICAL PROPER		RTIES (continued)		
	Upper flammability limit: Particle characteristics: Median equivalent diameter:		Non-applicable *	
			Non-applicable	
9.2	Other informat	ion:		
	Information wi	th regard to physical hazard classes	s:	
	Explosive properties: Oxidising properties: Corrosive to metals: Heat of combustion:		Non-applicable *	
			Non-applicable *	
			Non-applicable *	
			Non-applicable *	
	Aerosols-total p components:	ercentage (by mass) of flammable	Non-applicable *	
	Other safety characteristics:			
	Surface tension	at 20 °C:	Non-applicable *	
	Refraction index	x:	Non-applicable *	
	*Not relevant due te	o the nature of the product, not providing inform	nation 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 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:

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, carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

LD50 oral > 2000 mg/kg (rat)

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
- Corrosivity/Irritability: Based on available data, the classification criteria are not met
- B- Inhalation (acute effect):



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SECTION 11: TOX	SECTION 11: TOXICOLOGICAL INFORMATION (continued)					
- Corrosiv	 Acute toxicity : Based on available data, the classification criteria are not met Corrosivity/Irritability: Based on available data, the classification criteria are not met Contact with the skin and the eyes (acute effect): 					
- Contact	 Contact with the skin: Based on available data, the classification criteria are not met Contact with the eyes: Based on available data, the classification criteria are not met D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction): 					
IARC: No - Mutagen - Reprodu	 Carcinogenicity: Based on available data, the classification criteria are not met IARC: Non-applicable Mutagenicity: Based on available data, the classification criteria are not met Reproductive toxicity: Based on available data, the classification criteria are not met Sensitizing effects: 					
- Skin: Ba	 Respiratory: Based on available data, the classification criteria are not met Skin: Based on available data, the classification criteria are not met F- Specific target organ toxicity (STOT) - single exposure: 					
Based on a	Based on available data, the classification criteria are not met					
G- Specific tar	G- Specific target organ toxicity (STOT)-repeated exposure:					
- Skin: Ba hazardous	 Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met 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 a	Based on available data, the classification criteria are not met					
Other informa	Other information:					
Non-applicable	Non-applicable					
Specific toxic	Specific toxicology information on the substances:					
Not available						
Acute Toxicity	Acute Toxicity Estimate (ATE mix):					
	ATE mix		Ingredient(s) of unknown toxicity			
Oral Dermal	>5000 mg/kg (Calcul		Non-applicable			
Inhalation	>5000 mg/kg (Calcul >20 mg/L (4 h) (Calcu		Non-applicable Non-applicable			

SECTION 12: ECOLOGICAL INFORMATION

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

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



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-0		DISPOSAL CONSIDERATIO	NS			
3.1		atment methods:				
	Code 16 05 09	discorded chemicals other than these	Description	Waste class		
	Type of waste:					
	Non-applicable Waste management (disposal and evaluation):					
	Consult the authorized waste service manager on the assessment and disposal operations in accordance The Waste Regulations 2011, 2011 No. 988. As under 15 01 of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See paragraph 6.2. Regulations related to waste management:					
			he provisions related to waste management a	are stated:		
	UK legisla	tion: The Waste Regulations 2011.				
EC	TION 14: ⁻	TRANSPORT INFORMATION	N			
	Other inf	formation:				
			regulations on the transport of dangerous go	ods (IMDG, IATA, ADR/RID).		
	-	rt of dangerous goods by land:				
	With rega	ard to ADR 2021 and RID 2021:				
		UN number:	Non-applicable			
	14.2 14.3	UN proper shipping name: Transport hazard class(es):	Non-applicable Non-applicable			
	14.5	Labels:	Non-applicable			
	14.4	Packing group:	Non-applicable			
		Environmental hazards:	No			
	14.6	Special precautions for user Tunnel restriction code:	Non-applicable			
		Physico-Chemical properties:	see section 9			
	14.7					
	Transpo	rt of dangerous goods by sea:				
	-	ard to IMDG 40-20:				
	Ũ	UN number:	Non-applicable			
		UN proper shipping name:	Non-applicable			
	14.3		Non-applicable			
	14.4	Labels: Packing group:	Non-applicable Non-applicable			
	14.5		No			
	14.6	-	Non-applicable			
		Physico-Chemical properties: Limited quantities:	see section 9 Non-applicable			
	14.7	Segregation group: Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicable Non-applicable			
	Transpo	rt of dangerous goods by air:				



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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 Non-applicable				
	Labels:					
14.4	Packing group:	Non-applicable				
14.5	Environmental hazards:	No				
14.6	Special precautions for user	er				
	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: Substances listed in UK candidate list of substances of very high concern (SVHCs): Non-applicable Substances listed in UK REACH Authorization List (Appendix 14): Non-applicable 						

- Substances listed in UK REACH Authorisation List (Annex 14): Non-applicable

Restrictions to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII UK 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 REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2020.

Control of Substances Hazardous to Health Regulations 2002 (as amended)

EH40/2005 Workplace exposure limits.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

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

GB CLP Regulation:

Non-applicable

Classification procedure:

Non-applicable

Advice related to training:

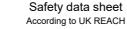
Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

http://echa.europa.eu

http://eur-lex.europa.eu

Abbreviations and acronyms:



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SECTION 16: OTH	HER INFORMATION (continued)			
IMDG: International IATA: International IATA: International ICAO:	Dose 50 Concentration 50 e concentration 50 anolwater partition coefficient coefficient of organic carbon	al carriage of dangerous goo	ods by road	

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at UK, 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.

- END OF SAFETY DATA SHEET -

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