

mung	: 13/04/2022 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 http://www.nanoporetech.com/
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/
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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.

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: 13/04/2022 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 flammabliity 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 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:

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



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EC		G AND STORAGE (continued)				
	spills and residue cleanliness where		ntion of industrial risks. Keep containers hermetically sealed. Control section 6). Avoid leakages from the container. Maintain order and nd explosions			
	products. Consu	It section 10 for conditions and materials				
	C Technical recom	mendations on general occupational hy	giene			
			fterwards with suitable cleaning products.			
	D Technical recom	mendations to prevent environmental ris	sks			
	It is not necessa	ry to take special measures to prevent e	nvironmental risks. For more information see subsection 6.2			
.2	Conditions for safe	e storage, including any incompatibili	ties:			
	A Technical measu	ures for storage				
	Maximum time:	12 Months				
	B General conditio	ns for storage				
	Avoid sources of	f heat, radiation, static electricity and cor	ntact with food. For additional information see subsection 10.5			
.3	Specific end use(s)):				
	Except for the instru	ctions already specified it is not necessa	ary to provide any special recommendation regarding the uses of this			
	product.					
SEC	TION 8: EXPOSU	RE CONTROLS/PERSONAL PRO	DTECTION			
.1	Control parameters	s:				
	Substances whose of	occupational exposure limits have to be	monitored in the workplace:			
	There are no applica	able occupational exposure limits for the	substances contained in the product			
.2	Exposure controls:					
	A Individual protect	tion measures, such as personal protect	tive equipment			
	marking>>. For r protection,) co information conta it is not known w	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	Chemical protective gloves	Replace the gloves at any sign of deterioration.			
	As the product is	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 Eye and face pro	nd has therefore to be checked prior to the theorem of the tection.	ne 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					



Safety data sheet According to UK REACH

AMPure XP Beads / SPRI Beads

nting: ²	13/04/2022 Date	e of compilation: 24/01/2022 Ve	ersion: 1		
SECT	ION 8: EXPOSURI	E CONTROLS/PERSONAL PRO	OTECTION (continued)		
Pictogram PPE Remarks					
Work clothing Replace before any evidence of deterioration. For periods of to the product for professional/industrial users CE III is accordance with the regulations in EN ISO 6529:2013, EN ISO 13688:2013, EN 464:1994.					
	F Additional emerge	ncy measures			
	It is not necessary	to take additional emergency measur	res.		
	Environmental expos	sure controls:			
	-		tion of the environment it is recommended to avoid environmental		
		oduct and its container. For additional			
SECT	TION 9: PHYSICAL	AND CHEMICAL PROPERTIES	S		
9.1	Information on basic	physical and chemical properties:			
For complete information see the product datasheet.					
	Appearance:				
	Physical state at 20 °C): Lic	uid		
	Appearance:	lorless			

Physical state at 20 °C:LiquidAppearance:ColorlessColour:Not availableOdour:Not availableOdour:Non-applicable *Odour threshold:Non-applicable *Volatility:100 °CVapour pressure at 20 °C:2350 PaVapour pressure at 20 °C:103 °CVapour pressure at 20 °C:103 °CVapour pressure at 20 °C:1032.6 kg/m³Evaporation rate at 20 °C:1032.6 kg/m³Product description:1032.6 kg/m³Product description:1033Dynamic viscosity at 20 °C:Non-applicable *Kinematic viscosity at 20 °C:Non-applicable *Kinematic viscosity at 20 °C:Non-applicable *Konenatic viscosity at 20 °C:Non-applicable *Partition coefficient n-octano//water 20 °C:Non-applicable *Vapour density at 20 °C:Non-applicable *Solubility in water at 20 °C:Non-applicable *Vapour density at 20 °C:Non-applicable *Partition coefficient n-octano//water 20 °C:Non-applicable *Solubility properties:Completely miscibleDecomposition temperature:Non-applicable *Meting point/freezing point:Non -applicable *Flammability (solid, gas):Non-applicable *Autoignition temperature:Non-applicable *Liquit density int:Non-applicable *Autoignition temperature:Non-applicable *Flammability (solid, gas):Non-applicable *Autoignition temperature:Non-applicable *<		
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	Autoignition temperature:	Non-applicable *
*Not relevant due to the nature of the product, not providing information property of its hazards.	Lower flammability limit:	Non-applicable *
	*Not relevant due to the nature of the product, not providi	ng information property of its hazards.



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SEC	TION 9: PHYSICAL AND CHEMICAL	PROPERTIES (continued)
	Upper flammability limit:	Non-applicable *
	Particle characteristics:	
	Median equivalent diameter:	Non-applicable
9.2	Other information:	
	Information with regard to physical haza	rd 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 flam components:	nmable Non-applicable *
	Other safety characteristics:	
	Surface tension at 20 ºC:	Non-applicable *
	Refraction index:	Non-applicable *
*Not relevant due to the nature of the produc		oviding 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 (CO2), 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 (C	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	with the skin: Based on available data, with the eyes: Based on available data, sts (carcinogenicity, mutagenicity and to:	, the classification criteria are		
IARC: N - Mutage	genicity: Based on available data, the cl on-applicable nicity: Based on available data, the class uctive toxicity: Based on available data, g effects:	sification criteria are not met		
- Skin: Ba	tory: Based on available data, the classi ased on available data, the classification rget organ toxicity (STOT) - single expo	n criteria are not met		
Based on available data, the classification criteria are not met				
G- Specific ta	rget organ toxicity (STOT)-repeated exp	oosure:		
 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 classification criteria are not met 			es not contain substances classified as	
Other inform				
Non-applicabl				
	Specific toxicology information on the substances:			
Not available				
Acute Toxicit	ty Estimate (ATE mix):			
	ATE mix		Ingredient(s) of unknown toxicity	
Oral	>5000 mg/kg (Calcul		Non-applicable	
Dermal	>5000 mg/kg (Calcul	ation method)	Non-applicable	

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

Non-applicable

SECTION 12: ECOLOGICAL INFORMATION

Inhalation



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SEC	TION 12: ECOLOGICAL INFORMATION (continued)
The e	xperimental 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

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:

- 14.1 UN number:
- 14.2
 UN proper shipping name:
 N

 14.3
 Transport hazard class(es):
 N

 Labels:
 N
- Non-applicable Non-applicable Non-applicable No

Non-applicable

- 14.4 Packing group:14.5 Environmental hazards:
- 14.6 Special precautions for user
 - Physico-Chemical properties: see section 9
- 14.7 Transport in bulk according to Non-applicable Annex II of Marpol and the IBC Code:

Transport of dangerous goods by sea:

With regard to IMDG 39-18:



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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	;
	Labels:	Non-applicable	•
14.4	Packing group:	Non-applicable	•
14.5	Marine pollutant:	No	
14.6	Special precautions for user		
	Special regulations:	Non-applicable	9
	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	Non-applicable)
T	Code:		
Transpo	rt of dangerous goods by air:		
With rega	ard to IATA/ICAO 2022:		
14.1	UN number:	Non-applicable	;
14.2	UN proper shipping name:	Non-applicable)
14.3	Transport hazard class(es):	Non-applicable	
	Labels:	Non-applicable)
14.4	Packing group:	Non-applicable	;
14.5	Environmental hazards:	No	
14.6	Special precautions for user		
	Physico-Chemical properties:	see section 9	
14.7	Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicable)

SECTION 15: REGULATORY INFORMATION

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

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

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



SECTION 16: OTHER INFORMATION (continued) 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://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: Effective concentration 50 EC50: Effective concentration 50 LC50: Lethal Concentration 50 LC50: Lethal Concentration 50 LC50: Effective concentration 50 LOgPOW: Octanolwater partition coefficient Ko: Partition coefficient of organic carbon UF: unique formula identifier	Printing: 13/04/2022	Date of compilation: 24/01/2022	Version: 1
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 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 50 LOS0: Lethal Dose 50 LCS0: Effective concentration 50 LOgPOW: Octanolwater partition coefficient Koc: Partition coefficient of organic carbon	SECTION 16: OTH	ER INFORMATION (continued)	
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 Abbreviations and acronyms: ADR: European agreement concerning the international carriage of dangerous goods by road IMDG: International Air Transport Association ICAO: International Civil Aviation Organisation COD: Chemical Oxygen Demand BOD5: 5day biochemical oxygen demand BCF: Bioconcentration 50 LC50: Lethal Dose 50 LC50: Effective concentration 50 EC90: Effective concentration 50 LC50: Effective concentration 50 LC9PW: Octanolwater partition coefficient Koc: Partition coefficient of organic carbon	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://echa.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 foto LC50: Lethal Dose 50 LC50: Ethal Dose 50 LC50: Ethal Concentration 50 EC50: Effective concentration 50 EC50: Effective concentration 50 LogPOW: Octanolwater partition coefficient Koc: Partition coefficient of organic carbon	Classification	procedure:	
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 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 EC50: Effective concentration 50 LogPOW: Octanolwater partition coefficient Koc: Partition coefficient of organic carbon	Non-applicable		
interpretation of this safety data sheet, as well as the label on the product. Principal bibliographical sources: http://eua.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 LC50: Lethal Concentration 50 LC50: Cotanolwater partition coefficient Koc: Partition coefficient of organic carbon	Advice related	to training:	
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			
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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 EC50: Effective concentration 50 LogPOW: Octanolwater partition coefficient Koc: Partition coefficient of organic carbon	http://echa.euro	ppa.eu	
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	http://eur-lex.eu	iropa.eu	
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	Abbreviations	and acronyms:	
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	ADR: Europear	agreement concerning the internationa	al carriage of dangerous goods by road
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			
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			
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			
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			
LD50: Lethal Dose 50 LC50: Lethal Concentration 50 EC50: Effective concentration 50 LogPOW: Octanolwater partition coefficient Koc: Partition coefficient of organic carbon			
LC50: Lethal Concentration 50 EC50: Effective concentration 50 LogPOW: Octanolwater partition coefficient Koc: Partition coefficient of organic carbon			
EC50: Effective concentration 50 LogPOW: Octanolwater partition coefficient Koc: Partition coefficient of organic carbon			
Koc: Partition coefficient of organic carbon			
Koc: Partition coefficient of organic carbon	LogPOW: Octa	nolwater partition coefficient	
UFI: unique formula identifier			
IARC: International Agency for Research on Cancer	IARC: Internation	onal 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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Relevant uses: Research use only Uses advised against: All uses not specified in this section or in section 7.3 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	Product identifier:	DNA / RNA CS		
 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 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/ 4 Emergency telephone number: +44 (0)845 034 7900 (9am-5:30pm GMT) 		Other means of identification	:		
 Relevant uses: Research use only Uses advised against: All uses not specified in this section or in section 7.3 Details of the supplier of the safety data sheet: 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/ Emergency telephone number: +44 (0)845 034 7900 (9am-5:30pm GMT) 		DCS, RCS, DNACS			
 Uses advised against: All uses not specified in this section or in section 7.3 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/ Emergency telephone number: +44 (0)845 034 7900 (9am-5:30pm GMT) 	.2	Relevant identified uses of th	e substance or mixture and uses advised against:		
 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/ 4 Emergency telephone number: +44 (0)845 034 7900 (9am-5:30pm GMT) 		Relevant uses: Research use o	nly		
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/ 4 Emergency telephone number: +44 (0)845 034 7900 (9am-5:30pm GMT)		Uses advised against: All uses	not specified in this section or in section 7.3		
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/ 4 Emergency telephone number: +44 (0)845 034 7900 (9am-5:30pm GMT)	.3	Details of the supplier of the safety data sheet:			
		Gosling Building, Edmund Halle OX4 4DQ Oxford - Oxon - Engl Phone: +44 (0)845 034 7900 -	ey Road, Oxford Science Park and		
ECTION 2: HAZARDS IDENTIFICATION	.4	Emergency telephone numbe	er: +44 (0)845 034 7900 (9am-5:30pm GMT)		
ECTION 2: HAZARDS IDENTIFICATION					
	EC	TION 2: HAZARDS IDENTI	FICATION		
		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 flammabliity 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 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:

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: HANDLING	G AND STORAGE (continued)			
	spills and residue cleanliness where	current legislation concerning the preven s, destroying them with safe methods (s a dangerous products are used. nendations for the prevention of fires an	ntion of industrial risks. Keep containers hermetically sealed. Control section 6). Avoid leakages from the container. Maintain order and d explosions		
	products. Consult	d to transfer at a slow speed to avoid the section 10 for conditions and materials nendations on general occupational hyg			
	Do not eat or drin	k during the process, washing hands aft	terwards with suitable cleaning products.		
	D Technical recomm	nendations to prevent environmental risl	ks		
	It is not necessar	y to take special measures to prevent er	nvironmental risks. For more information see subsection 6.2		
. 2		storage, including any incompatibilit			
	A Technical measu				
	Maximum time:	12 Months			
	B General condition				
		-	tact with food. For additional information see subsection 10.5		
7.3	Specific end use(s):				
			ry to provide any special recommendation regarding the uses of this		
SEC 3.1	TION 8: EXPOSUR Control parameters	RE CONTROLS/PERSONAL PRO	TECTION		
	Substances whose of	ccupational exposure limits have to be n	nonitored in the workplace:		
	There are no applical	ble occupational exposure limits for the s	substances contained in the product		
3.2	Exposure controls:				
	A Individual protecti	on 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 for the hands				
	Pictogram	PPE Chemical protective gloves	Remarks Replace the gloves at any sign of deterioration.		
	Mandatory hand protection				
	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		
	J				



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SECTION 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 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:	1032.2 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 *
Lower flammability limit:	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: 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 me	etals:	Non-applicable *
	Heat of combus	stion:	Non-applicable *
	Aerosols-total p components:	percentage (by mass) of flammable	Non-applicable *
	Other safety cl	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 (CO2), 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	KICOLOGICAL INFORMATION (c	ontinued)	
- Corrosiv	xicity :Based on available data, the cla ity/Irritability: Based on available data, th th the skin and the eyes (acute effect):		
- Contact	with the skin: Based on available data, t with the eyes: Based on available data, ts (carcinogenicity, mutagenicity and tox	the classification criteria are i	
IARC: No - Mutager	genicity: Based on available data, the cla on-applicable nicity: Based on available data, the class ictive toxicity: Based on available data, t effects:	ification criteria are not met	
- Skin: Ba	tory: 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	available data, the classification criteria a	are not met	
G- Specific ta	rget organ toxicity (STOT)-repeated exp	osure:	
- Skin: Ba hazardous H- Aspiration	sed on available data, the classification for this effect. For more information see hazard:	criteria are not met, as it does section 3.	data, the classification criteria are not met s not contain substances classified as
	available data, the classification criteria a	are not met	
Other informa	ition:		
Non-applicable			
Specific toxic	ology information on the substances	:	
Not available			
Acute Toxicit	y Estimate (ATE mix):		
	ATE mix		Ingredient(s) of unknown toxicity
Oral	>5000 mg/kg (Calcula	ation method)	Non-applicable
Dermal	>5000 mg/kg (Calcula	ation method)	Non-applicable

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

Non-applicable

SECTION 12: ECOLOGICAL INFORMATION

Inhalation



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SECTION 12: ECOLOGICAL INFORMATION (continued)

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

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:

14.5 Environmental hazards:

- 14.1 UN number:
- 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 Non-applicable No

Non-applicable

- **14.6** Special precautions for user Physico-Chemical properties: see section 9
- 14.7 Transport in bulk according to Non-applicable Annex II of Marpol and the IBC Code:

Transport of dangerous goods by sea:

With regard to IMDG 39-18:



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SECTION 14:	TRANSPORT INFORMATION	(continued))
14.1	UN number:	Non-applicabl	le
14.2	UN proper shipping name:	Non-applicable	le
14.3	Transport hazard class(es):	Non-applicable	le
	Labels:	Non-applicable	le
14.4	Packing group:	Non-applicable	le
14.5	Marine pollutant:	No	
14.6	Special precautions for user		
	Special regulations:	Non-applicable	le
	EmS Codes:		
	Physico-Chemical properties:	see section 9	
	Limited quantities:	Non-applicable	
	Segregation group:	Non-applicable	le
14.7	Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicabl	le
Transpo	rt of dangerous goods by air:		
-	ard to IATA/ICAO 2022:		
14.1	UN number:	Non-applicable	le
14.2	UN proper shipping name:	Non-applicable	le
14.3	Transport hazard class(es):	Non-applicable	le
	Labels:	Non-applicable	le
14.4	Packing group:	Non-applicabl	le
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-applicabl	le

SECTION 15: REGULATORY INFORMATION

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

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

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



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SECTION 16: OTHER INFORMATION (continued)	
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 an interpretation of this safety data sheet, as well as the label on the product.	ł
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.



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nting	: 06/09/2022 Date of compilation: 26/01/2022 Version: 1				
SEC	CTION 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)				
SEC	CTION 2: HAZARDS IDENTIFICATION				
2.1	Classification of the substance or mixture:				
	GB CLP Regulation:				
	Classification of this product has been carried out in accordance with GB CLP Regulation.				
	Eye Irrit. 2: Eye irritation, Category 2, H319				
2.2	Label elements:				
	GB CLP Regulation:				
	Warning				



Hazard statements:

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

Precautionary statements:

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

P102: Keep out of reach of children.

P264: Wash thoroughly after use.

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

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

P337+P313: If eye irritation persists: Get medical advice/attention.

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:

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	40
CAS: 60-00-4	Eye Irrit. 2: H319 - Warning	10 - <15 %



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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

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:

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:

by initialiation:

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:

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

By ingestion/aspiration:

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:



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SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

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.

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 destroy 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)

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):

7.2

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.



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 re I has therefore to be checked prior to th		n not be calculated in advance w	
D Eye and face prot				
Pictogram	PPE		Remarks	
Mandatory face protection	Panoramic glasses against splash/projections.		according to the manufacturer's instruc s a risk of splashing.	
E Body protection				
Pictogram	PPE		Remarks	
	Work clothing	to the product for professional/in accordance with the regulations in EN	rioration. For periods of prolonged exp dustrial users CE III is recommended, in ISO 6529:2013, EN ISO 6530:2005, E 13, EN 464:1994.	
F Additional emerge	ency measures			
Emergency mea	asure Standards	Emergency measure	Standards	
Emergency sho	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2	011 Eyewash stations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:207	
F	osure controls:			
Environmental expo			mended to avoid environmental	

For complete information see the product datasheet

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:	1002.7 kg/m³
Relative density at 20 °C:	1.003
*Not relevant due to the nature of the product, not providing informa	tion property of its hazards.



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SEC	TION 9: PHYSICAL A	ND CHEMICAL PROPE	RTIES (continued)
	Dynamic viscosity at 20	°C:	1.4 cP
	Kinematic viscosity at 20	°C:	1.4 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-oct	anol/water 20 °C:	Non-applicable *
	Solubility in water at 20 °	C:	Non-applicable *
	Solubility properties:		Completely miscible
	Decomposition temperat	ure:	Non-applicable *
	Melting point/freezing po	int:	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 diame	eter:	Non-applicable
9.2	Other information:		
	Information with regard	l to physical hazard classe	PS:
	Explosive properties:		Non-applicable *
	Oxidising properties:		Non-applicable *
	Corrosive to metals:		Non-applicable *
	Heat of combustion:		Non-applicable *
	Aerosols-total percentag components:	e (by mass) of flammable	Non-applicable *
	Other safety characteri	stics:	
	Surface tension at 20 °C	:	Non-applicable *
	Refraction index:		Non-applicable *
	*Not relevant due to the nature	e of the product, not providing infor	mation 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		tion Contact with air Increase in temperature Sunlight		Humidity	
Not applicable	Not applicable Not applicable I		Not applicable	Not applicable	
Incompatible materials:					
Acids	Water	Oxidising materials	Combustible materials	Others	
Avoid strong acids	Not applicable	Not applicable	Not applicable	Avoid alkalis or strong bases	
	Not applicable	Not applicable Not applicable Incompatible materials: Acids	Not applicable Not applicable Incompatible materials: Acids Acids Water	Not applicable Not applicable Not applicable Incompatible materials: Acids Water Oxidising materials	



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SECTION 10: STABILITY AND REACTIVITY (continued)

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

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

Dangerous health implications:

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

A- Ingestion (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for consumption. For more information see section 3
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- B- Inhalation (acute effect):
 - Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for inhalation. For more information see section 3.
 - Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- C- Contact with the skin and the eyes (acute effect):
 - Contact with the skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for skin contact. For more information see section 3.
 Contact with the eyes: Produces eye damage after contact.
 - Contact with the eyes. I foundes eye damage after contact.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
 - Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.
 - IARC: Non-applicable
 - Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
 - Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances
 - classified as hazardous for this effect. For more information see section 3.
- E- Sensitizing effects:
 - Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
 - Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- F- Specific target organ toxicity (STOT) single exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

- G- Specific target organ toxicity (STOT)-repeated exposure:
 - Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as
 - it does not contain substances classified as hazardous for this effect. For more information see section 3.
 - Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

Other information:

Non-applicable

Specific toxicology information on the substances:



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Identification	A	cute toxicity	Gen
edetic acid	LD50 oral	2581 mg/kg	Ra
CAS: 60-00-4	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	

	Ingredient(s) of unknown toxicity		
Oral >5000 mg/kg (Calculation method)		Non-applicable	
Dermal	Dermal >5000 mg/kg (Calculation method)		
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:

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
		EC50	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		
edetic acid		BCF	13
CAS: 60-00-4		Pow Log	-3.34
		Potential	Low

12.4 Mobility in soil:

Identification	Absorption/desorption		Volat	ility
edetic acid	Koc	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: 12.5

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 Was							
16 05 09 discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08 Non dangerous							
Type of wast	Type of waste:						
Non-applicabl	Non-applicable						

- CONTINUED ON NEXT PAGE -



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SECTION 13: DISPOSAL CONSIDERATIONS (continued)

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:

, and togo			
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 Annex II of Marpol and the IBC Code:	Non-applicable	
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	
14.3	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	
Transpo	rt of dangerous goods by air:		
With rega	ard to IATA/ICAO 2022:		
			 _



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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:	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):

Shall not be used in:

---ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,

-tricks and jokes,

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

Specific provisions in terms of protecting people or the environment:

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

Other legislation:

The 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 2:

H319: Causes serious eye irritation.

Texts of the legislative phrases mentioned in section 3:

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

GB CLP Regulation:

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

Classification procedure:

Eye Irrit. 2: Calculation method

Advice related to training:

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

Principal bibliographical sources:

http://echa.europa.eu

http://eur-lex.europa.eu

Abbreviations and acronyms:



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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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ung.	
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
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:
1.4	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/ 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 flammabliity 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 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:

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	CTION 7: HANDLING AND STORAGE	(continued)
	Comply with the current legislation conc	cerning the prevention of industrial risks. Keep containers hermetically sealed. Control h safe methods (section 6). Avoid leakages from the container. Maintain order and are used.
		speed to avoid the creation of electrostatic charges that could affect flammable
		ons and materials that should be avoided.
	Do not eat or drink during the process, v	washing hands afterwards with suitable cleaning products.
	D Technical recommendations to prevent	environmental risks
	It is not necessary to take special meas	ures to prevent environmental risks. For more information see subsection 6.2
7.2	Conditions for safe storage, including ar	
	A Technical measures for storage	
	Maximum time: 12 Months	
	B General conditions for storage	
	5	electricity and contact with food. For additional information see subsection 10.5
7 2		electricity and contact with 1000. For auditional mormation see subsection 10.5
7.3	Specific end use(s):	
	product.	d it is not necessary to provide any special recommendation regarding the uses of this
SEC	CTION 8: EXPOSURE CONTROLS/PE	RSONAL PROTECTION
B.1	Control parameters:	
	Substances whose occupational exposure I	Buside have de la montidane d'in des consultations
	Substances whose occupational exposure i	limits have to be monitored in the workplace:
		limits have to be monitored in the workplace: sure limits for the substances contained in the product
8.2	There are no applicable occupational expos	sure limits for the substances contained in the product
8.2		sure limits for the substances contained in the product
8.2	 There are no applicable occupational expose Exposure controls: A Individual protection measures, such as As a preventative measure it is recomm marking>>. For more information on Perprotection,) consult the information learner 	sure limits for the substances contained in the product s personal protective equipment nended to use basic Personal Protective Equipment, with the corresponding < <ukca pronal Protective Equipment (storage, use, cleaning, maintenance, class of aflet provided by the manufacturer. For more information see subsection 7.1. All mendation which needs some specification from the labour risk prevention services as</ukca
8.2	 There are no applicable occupational expose Exposure controls: A Individual protection measures, such as As a preventative measure it is recomm marking>>. For more information on Perprotection,) consult the information lear information contained herein is a recommit is not known whether the company ha B Respiratory protection 	sure limits for the substances contained in the product s personal protective equipment hended to use basic Personal Protective Equipment, with the corresponding < <ukca pronal Protective Equipment (storage, use, cleaning, maintenance, class of aflet provided by the manufacturer. For more information see subsection 7.1. All mendation which needs some specification from the labour risk prevention services as</ukca
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8.2	 There are no applicable occupational expose Exposure controls: A Individual protection measures, such as As a preventative measure it is recomm marking>>. For more information on Perprotection,) consult the information lear information contained herein is a recommit is not known whether the company has B Respiratory protection The use of protection equipment will be C Specific protection for the hands 	sure limits for the substances contained in the product s personal protective equipment mended to use basic Personal Protective Equipment, with the corresponding < <ukca prisonal Protective Equipment (storage, use, cleaning, maintenance, class of aflet provided by the manufacturer. For more information see subsection 7.1. All immendation which needs some specification from the labour risk prevention services as a additional measures at its disposal. necessary if a mist forms or if the occupational exposure limits are exceeded.</ukca
8.2	There are no applicable occupational expose Exposure controls: A Individual protection measures, such as As a preventative measure it is recomm marking>>. For more information on Per- protection,) consult the information lead information contained herein is a recomm it is not known whether the company has B Respiratory protection The use of protection equipment will be C Specific protection for the hands Pictogram PPE Chemical protect	sure limits for the substances contained in the product s personal protective equipment mended to use basic Personal Protective Equipment, with the corresponding < <ukca presonal Protective Equipment (storage, use, cleaning, maintenance, class of aflet provided by the manufacturer. For more information see subsection 7.1. All immendation which needs some specification from the labour risk prevention services as additional measures at its disposal. necessary if a mist forms or if the occupational exposure limits are exceeded. Remarks</ukca
8.2	There are no applicable occupational expose Exposure controls: A Individual protection measures, such as As a preventative measure it is recomm marking>>. For more information on Per- protection,) consult the information lead information contained herein is a recomm it is not known whether the company ha B Respiratory protection The use of protection equipment will be C Specific protection for the hands Pictogram PPE Mandatory hand protection Chemical protect	sure limits for the substances contained in the product s personal protective equipment nended to use basic Personal Protective Equipment, with the corresponding < <ukca (storage,="" 7.1.="" a="" additional="" aflet="" all="" are="" as="" at="" by="" class="" cleaning,="" disposal.="" equipment="" exceeded.<="" exposure="" for="" forms="" from="" if="" information="" its="" labour="" limits="" maintenance,="" manufacturer.="" measures="" mendation="" mist="" more="" necessary="" needs="" occupational="" of="" or="" orsonal="" prevention="" protective="" provided="" risk="" see="" services="" some="" specification="" subsection="" td="" the="" use,="" which=""></ukca>
8.2	There are no applicable occupational expose Exposure controls: A Individual protection measures, such as As a preventative measure it is recomm marking>>. For more information on Per- protection,) consult the information lea- information contained herein is a recomm it is not known whether the company ha B Respiratory protection The use of protection equipment will be C Specific protection for the hands Pictogram PPE Mandatory hand protection Chemical protector As the product is a mixture of several su	sure limits for the substances contained in the product s personal protective equipment nended to use basic Personal Protective Equipment, with the corresponding < <ukca (storage,="" 7.1.="" a="" additional="" aflet="" all="" are="" as="" at="" by="" class="" cleaning,="" disposal.="" equipment="" exceeded.<="" exposure="" for="" forms="" from="" if="" information="" its="" labour="" limits="" maintenance,="" manufacturer.="" measures="" mendation="" mist="" more="" necessary="" needs="" occupational="" of="" or="" orsonal="" prevention="" protective="" provided="" risk="" see="" services="" some="" specification="" subsection="" td="" the="" use,="" which=""></ukca>
8.2	There are no applicable occupational expose Exposure controls: A Individual protection measures, such as As a preventative measure it is recomm marking>>. For more information on Per- protection,) consult the information lea- information contained herein is a recomm it is not known whether the company ha B Respiratory protection The use of protection equipment will be C Specific protection for the hands $\frac{\text{Pictogram} \qquad \text{PPE}}{(Mandatory hand} \qquad \text{Chemical protect}}$ As the product is a mixture of several su- total reliability and has therefore to be compared.	sure limits for the substances contained in the product s personal protective equipment mended to use basic Personal Protective Equipment, with the corresponding < <ukca (storage,="" 7.1.="" <tbody="" a="" additional="" aflet="" all="" are="" as="" at="" by="" class="" cleaning,="" disposal.="" equipment="" exceeded.="" exposure="" for="" forms="" from="" if="" information="" its="" labour="" limits="" maintenance,="" manufacturer.="" measures="" mendation="" mist="" more="" necessary="" needs="" occupational="" of="" or="" prevention="" protective="" provided="" resonal="" risk="" see="" services="" some="" specification="" subsection="" the="" use,="" which=""> Remarks ctive gloves Replace the gloves at any sign of deterioration. ubstances, the resistance of the glove material can not be calculated in advance with the corresponding.</ukca>
8.2	There are no applicable occupational expose Exposure controls: A Individual protection measures, such as As a preventative measure it is recomm marking>>. For more information on Per- protection,) consult the information lea- information contained herein is a recom- it is not known whether the company ha B Respiratory protection The use of protection equipment will be C Specific protection for the hands Pictogram PPE Mandatory hand protection Chemical protection As the product is a mixture of several su- total reliability and has therefore to be cl- D Eye and face protection	sure limits for the substances contained in the product s personal protective equipment mended to use basic Personal Protective Equipment, with the corresponding < <ukca (storage,="" 7.1.="" <tbody="" a="" additional="" aflet="" all="" are="" as="" at="" by="" class="" cleaning,="" disposal.="" equipment="" exceeded.="" exposure="" for="" forms="" from="" if="" information="" its="" labour="" limits="" maintenance,="" manufacturer.="" measures="" mendation="" mist="" more="" necessary="" needs="" occupational="" of="" or="" prevention="" protective="" provided="" resonal="" risk="" see="" services="" some="" specification="" subsection="" the="" use,="" which=""> Remarks ctive gloves Replace the gloves at any sign of deterioration. ubstances, the resistance of the glove material can not be calculated in advance with the corresponding.</ukca>



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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.
	Additional emerge		

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/m ³
Relative density at 20 °C:	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 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 *
Lower flammability limit:	Non-applicable *
*Not relevant due to the nature of the product, not providing inform	nation property of its hazards.



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SEC	TION 9: PHYSICAL AND CHEMICAL PRO	PERTIES (continued)
	Upper flammability limit:	Non-applicable *
	Particle characteristics:	
	Median equivalent diameter:	Non-applicable
9.2	Other information:	
	Information with regard to physical hazard cla	isses:
	Explosive properties:	Non-applicable *
	Oxidising properties:	Non-applicable *
	Corrosive to metals:	Non-applicable *
	Heat of combustion:	Non-applicable *
	Aerosols-total percentage (by mass) of flammabl components:	e 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	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 (CO2), 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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ECTION 11: TOXIC	OLOGICAL INFORMATION (c	ontinued)	
- Corrosivity/	ty :Based on available data, the cla rritability: Based on available data, th ne skin and the eyes (acute effect):		
 Contact with 	n the skin: Based on available data, t n the eyes: Based on available data, carcinogenicity, mutagenicity and tox	the classification criteria are	
IARC: Non-a - Mutagenicit	y: Based on available data, the class we toxicity: Based on available data, t	ification criteria are not met	
- Skin: Based	: Based on available data, the classif l on available data, the classification organ toxicity (STOT) - single expos	criteria are not met	
Based on avai	lable data, the classification criteria a	are not met	
G- Specific target	organ toxicity (STOT)-repeated exp	osure:	
- Skin: Based hazardous for H- Aspiration haz	I on available data, the classification this effect. For more information see	criteria are not met, as it doe section 3.	e data, the classification criteria are not met es not contain substances classified as
Other information	n:		
Non-applicable			
	gy information on the substances	:	
Not available			
Acute Toxicity E	stimate (ATE mix):		
	ATE mix	tion mothed)	Ingredient(s) of unknown toxicity
Oral	>5000 mg/kg (Calcula		Non-applicable
Dermal	>5000 mg/kg (Calcula		Non-applicable

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

Non-applicable

SECTION 12: ECOLOGICAL INFORMATION

Inhalation



Printing: 13/04/2022 Date of compilation: 24/01/2022 Version: 1 SECTION 12: ECOLOGICAL INFORMATION (continued) 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:

Niet des suites d

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

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:
 I

 14.3
 Transport hazard class(es):
 I

 Labels:
 I
- Non-applicable Non-applicable Non-applicable Non-applicable No
- 14.4 Packing group:14.5 Environmental hazards:
- 14.6 Special precautions for user
 - Physico-Chemical properties: see section 9
- 14.7 Transport in bulk according to Non-applicable Annex II of Marpol and the IBC Code:

Transport of dangerous goods by sea:

With regard to IMDG 39-18:



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SECTION 14:	FRANSPORT INFORMATION	V (continued))
14.1	UN number:	Non-applicabl	е
14.2	UN proper shipping name:	Non-applicabl	
14.3	Transport hazard class(es):	Non-applicabl	е
	Labels:	Non-applicabl	е
14.4	Packing group:	Non-applicabl	е
14.5	Marine pollutant:	No	
14.6	Special precautions for user		
	Special regulations:	Non-applicabl	е
	EmS Codes:		
	Physico-Chemical properties:	see section 9	
	Limited quantities:	Non-applicabl	
	Segregation group:	Non-applicabl	
14.7	Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicabl	e
Transpo	t of dangerous goods by air:		
With rega	rd to IATA/ICAO 2022:		
14.1	UN number:	Non-applicabl	е
14.2	UN proper shipping name:	Non-applicabl	е
14.3	Transport hazard class(es):	Non-applicabl	е
	Labels:	Non-applicabl	е
14.4	Packing group:	Non-applicabl	е
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-applicabl	e

SECTION 15: REGULATORY INFORMATION

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

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

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



Elution Buffer

Printing: 13/04/2022	Date of compilation: 24/01/2022	Version: 1
SECTION 16: OTHE	R INFORMATION (continued)	
Non-applicable Classification pr Non-applicable	rocedure:	
Advice related to	-	
	nmended in order to prevent industrial ri this safety data sheet, as well as the lab	sks for staff using this product and to facilitate their comprehension and bel on the product.
	graphical sources:	
http://echa.europa		
http://eur-lex.euro Abbreviations a	•	
ADR: European a IMDG: Internation IATA: Internationa	agreement concerning the international nal maritime dangerous goods code al Air Transport Association nal Civil Aviation Organisation	carriage of dangerous goods by road
COD: Chemical C BOD5: 5day bioc BCF: Bioconcent	chemical oxygen demand	
LD50: Lethal Dos LC50: Lethal Con	se 50	
EC50: Lethar Con EC50: Effective c		
	olwater partition coefficient	
	efficient of organic carbon	
UFI: unique formu IARC: Internation	ula identifier hal 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.



Printing: 06/09/2022	Date of compilation: 22/06/2022	Version: 1
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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
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



Printing: 06/09/2022 Date of compilation: 22/06/2022 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 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



Printing: 06/09/2022 Date of compilation: 22/06/2022 Version: 1 SECTION 7: HANDLING AND STORAGE (continued) Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and destroy 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. 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 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 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: 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 PPE Pictogram Remarks Chemical protective gloves Replace the gloves at any sign of deterioration. Mandatory hand protecti 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 PPF Remarks Clean daily and disinfect periodically according to the manufacturer's instructions. Panoramic glasses against splash/projections. Use if there is a risk of splashing. Mandatory face protection E.- Body protection



Printing: 06/09/	/2022 Dat	e of compilation: 22/06/2022 Ver	sion: 1
SECTION	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 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:	1068.5 kg/m ³
Relative density at 20 ºC:	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	information 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 clas	ises:
	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 te	o the nature of the product, not providing in	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 (CO), 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):



g: 06/09/2022 Date of compilatio	n: 22/06/2022	Version: 1	
CTION 11: TOXICOLOGICAL INF	ORMATION (co	ntinued)	
 Acute toxicity : Based on avai Corrosivity/Irritability: Based o Contact with the skin and the eye 	n available data, th		net
 Contact with the skin: Based of Contact with the eyes: Based D- CMR effects (carcinogenicity, mustion) 	on available data, t	he classification criteria are not	
 Carcinogenicity: Based on ava IARC: Non-applicable Mutagenicity: Based on availa Reproductive toxicity: Based of E- Sensitizing effects: 	ble data, the classif	fication criteria are not met	net
 Respiratory: Based on availab Skin: Based on available data F- Specific target organ toxicity (ST 	, the classification o	riteria are not met	
Based on available data, the clas	ssification criteria ar	re not met	
G- Specific target organ toxicity (ST	OT)-repeated expo	sure:	
 Specific target organ toxicity (- Skin: Based on available data hazardous for this effect. For mo H- Aspiration hazard: 	, the classification of	riteria are not met, as it does no	a, the classification criteria are not met ot contain substances classified as
Based on available data, the clas	ssification criteria a	re not met	
Other information:			
Non-applicable			
Specific toxicology information or	n the substances:		
Not available			
Acute Toxicity Estimate (ATE mix)):		
	ATE mix		Ingredient(s) of unknown toxicity
Oral	>5000 mg/kg (Calculat	ion method)	Non-applicable

	5 5 1	
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:

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:

withinge	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



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 (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.



Flowcell (Flush) Tether / Priming Tether

Printing:	06/09/2022 Date of compilation: 14/03/2022 Version: 1
SEC	TION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1	Product identifier:Flowcell (Flush) Tether / Priming TetherOther 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)
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
SEC	TION 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

Printing:	: 06/09/2022 Date of compilation: 14/03/2022 Version: 1					
SEC	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	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 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 destroy using safe method mendations for the prevention of fires and					
	products. Consul	ed to transfer at a slow speed to avoid the t section 10 for conditions and materials mendations on general occupational hyg					
	Do not eat or drir	nk during the process, washing hands aft	erwards with suitable cleaning products.				
	D Technical recom	D Technical recommendations to prevent environmental risks					
It is not necessary to take special measures to prevent environmental risks. For more information see s							
7.2	Conditions for safe	storage, including any incompatibiliti	es:				
	A Technical measures for storage						
	Maximum time:	12 Months					
	B General condition	ns for storage					
	Avoid sources of	heat, radiation, static electricity and cont	act with food. For additional information see subsection 10.5				
7.3	Specific end use(s)						
			y to provide any special recommendation regarding the uses of this				
SEC	TION 8: EXPOSUR	RE CONTROLS/PERSONAL PRO	TECTION				
8.1	Control parameters						
0.1	-	ccupational exposure limits have to be m	ponitored in the workplace:				
0 7		ble occupational exposure limits for the s	substances contained in the product				
8.2	Exposure controls:	ion measures, such as personal protectiv					
	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.</ukca>						
	B Respiratory protection The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded						
	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 Chemical protective gloves	Remarks Replace the gloves at any sign of deterioration.				
	Mandatory hand protection						
		d has therefore to be checked prior to the	istance of the glove material can not be calculated in advance with a 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.				
	protection						
	E Body protection						



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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 emergency measures It is not necessary to take additional emergency measures.					
Env	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	ECTION 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 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:	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 *
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: PHYS	ICAL AND CHEMICAL PROPER	RTIES (continued)
Upper flammability limit:		ility limit:	Non-applicable *
	Particle charac	cteristics:	
	Median equival	ent diameter:	Non-applicable
9.2	Other informat	lion:	
	Information wi	th regard to physical hazard classes	S:
	Explosive prope	erties:	Non-applicable *
	Oxidising properties: Corrosive to metals: Heat of combustion:		Non-applicable *
			Non-applicable *
			Non-applicable *
	Aerosols-total percentage (by mass) of flammable components:		Non-applicable *
	Other safety characteristics:		
	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 (CO), 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: TO	KICOLOGICAL INFORMATION (co	ontinued)	
- Corrosiv	xicity :Based on available data, the clas ity/Irritability: Based on available data, th th the skin and the eyes (acute effect):		iet
- Contact	with the skin: Based on available data, t with the eyes: Based on available data, ts (carcinogenicity, mutagenicity and tox	the classification criteria are not i	
IARC: No - Mutager	genicity: Based on available data, the cla on-applicable nicity: Based on available data, the class uctive toxicity: Based on available data, the geffects:	ification criteria are not met	net
- Skin: Ba	tory: Based on available data, the classif ased on available data, the classification rget organ toxicity (STOT) - single expos	criteria are not met	
Based on a	available data, the classification criteria a	re not met	
G- Specific ta	rget organ toxicity (STOT)-repeated expo	osure:	
- Skin: Ba	target organ toxicity (STOT)-repeated ex ased on available data, the classification for this effect. For more information see hazard:	criteria are not met, as it does no	
Based on a	available data, the classification criteria a	re not met	
Other informa	ation:		
Non-applicable	Э		
Specific toxic	ology information on the substances:		
Not available			
Acute Toxicit	y Estimate (ATE mix):		
	ATE mix		Ingredient(s) of unknown toxicity

	Ingredient(s) of unknown toxicity	
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:

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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SECT	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:

withinga		
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:	
		NI
14.1	UN number:	Non-applicable
14.1 14.2		Non-applicable
	UN proper shipping name:	Non-applicable Non-applicable Non-applicable
14.2		Non-applicable Non-applicable
14.2	UN proper shipping name: Transport hazard class(es):	Non-applicable
14.2 14.3	UN proper shipping name: Transport hazard class(es): Labels:	Non-applicable Non-applicable Non-applicable
14.2 14.3 14.4	UN proper shipping name: Transport hazard class(es): Labels: Packing group:	Non-applicable Non-applicable Non-applicable Non-applicable
14.2 14.3 14.4 14.5	UN proper shipping name: Transport hazard class(es): Labels: Packing group: Marine pollutant:	Non-applicable Non-applicable Non-applicable Non-applicable
14.2 14.3 14.4 14.5	UN proper shipping name: Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user	Non-applicable Non-applicable Non-applicable Non-applicable No
14.2 14.3 14.4 14.5	UN proper shipping name: Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations:	Non-applicable Non-applicable Non-applicable Non-applicable No
14.2 14.3 14.4 14.5	UN proper shipping name: Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes:	Non-applicable Non-applicable Non-applicable Non-applicable No
14.2 14.3 14.4 14.5	UN proper shipping name: 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 Non-applicable No Non-applicable see section 9
14.2 14.3 14.4 14.5	UN proper shipping name: Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities:	Non-applicable Non-applicable Non-applicable No Non-applicable see section 9 Non-applicable
14.2 14.3 14.4 14.5 14.6	UN proper shipping name: Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group: 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
14.2 14.3 14.4 14.5 14.6	UN proper shipping name: Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group: 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
14.2 14.3 14.4 14.5 14.6	UN proper shipping name: Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group: 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



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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 (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: 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	TION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING				
.1	Product identifier: Fragment Buffer L				
	Other means of identification:				
	VLF, LFB				
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:				
1.4	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/ Emergency telephone number: +44 (0)845 034 7900 (9am-5:30pm GMT)				
1.4	Emergency telephone number: +44 (0)845 034 7900 (9am-5:30pm GMT)				
SEC	CTION 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 flammabliity 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 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:

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: HANDLING A	ND STORAGE (continued)				
	Comply with the curre spills and residues, d cleanliness where da	ent legislation concerning the preve	ention of industrial risks. Keep containers hermetically sealed. Control (section 6). Avoid leakages from the container. Maintain order and nd explosions			
	products. Consult see	o transfer at a slow speed to avoid to ction 10 for conditions and material adations on general occupational hy				
	Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.					
		idations to prevent environmental ri				
		•	environmental risks. For more information see subsection 6.2			
7.2		orage, including any incompatibility				
	A Technical measures					
	Maximum time:	12 Months				
	B General conditions fo	0	at studie for d. For a different information and such as the do f			
		at, radiation, static electricity and co	ntact with food. For additional information see subsection 10.5			
7.3	Specific end use(s):					
	Except for the instruction product.	ns already specified it is not necess	ary to provide any special recommendation regarding the uses of this			
	-					
SEC	TION 8: EXPOSURE (CONTROLS/PERSONAL PRO	DTECTION			
	CTION 8: EXPOSURE (Control parameters:	CONTROLS/PERSONAL PRO	DTECTION			
	Control parameters:	CONTROLS/PERSONAL PRO				
	Control parameters: Substances whose occu	pational exposure limits have to be				
8.1	Control parameters: Substances whose occu	pational exposure limits have to be	monitored in the workplace:			
SEC 8.1 8.2	Control parameters: Substances whose occu There are no applicable Exposure controls:	pational exposure limits have to be	monitored in the workplace: e substances contained in the product			
8.1	Control parameters: Substances whose occu There are no applicable of Exposure controls: A Individual protection of As a preventative me marking>>. For more protection,) consult information contained it is not known wheth	pational exposure limits have to be occupational exposure limits for the measures, such as personal protec easure it is recommended to use ba e information on Personal Protective t the information leaflet provided by d herein is a recommendation which her the company has additional mea	monitored in the workplace: e substances contained in the product tive equipment 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 a</ukca 			
8.1	Control parameters: Substances whose occu There are no applicable of Exposure controls: A Individual protection As a preventative me marking>>. For more protection,) consult information contained it is not known wheth B Respiratory protectio	pational exposure limits have to be occupational exposure limits for the measures, such as personal protec easure it is recommended to use ba a information on Personal Protective t the information leaflet provided by d herein is a recommendation which the company has additional mea- on	monitored in the workplace: e substances contained in the product tive equipment 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 a usures at its disposal.</ukca 			
3.1	Control parameters: Substances whose occu There are no applicable Exposure controls: A Individual protection As a preventative me marking>>. For more protection,) consult information contained it is not known wheth B Respiratory protection The use of protection	pational exposure limits have to be occupational exposure limits for the measures, such as personal protec easure it is recommended to use ba a information on Personal Protective t the information leaflet provided by d herein is a recommendation which her the company has additional mea on	monitored in the workplace: e substances contained in the product tive equipment 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 a</ukca 			
8.1	Control parameters: Substances whose occu There are no applicable Exposure controls: A Individual protection As a preventative me marking>>. For more protection,) consult information contained it is not known wheth B Respiratory protection The use of protection C Specific protection fo	pational exposure limits have to be occupational exposure limits for the measures, such as personal protec easure it is recommended to use ba a information on Personal Protective t the information leaflet provided by d herein is a recommendation which her the company has additional mea- on equipment will be necessary if a more the hands	monitored in the workplace: e substances contained in the product tive equipment 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 a usures at its disposal.</ukca 			
8.1	Control parameters: Substances whose occu There are no applicable Exposure controls: A Individual protection As a preventative me marking>>. For more protection,) consult information contained it is not known wheth B Respiratory protection The use of protection	pational exposure limits have to be occupational exposure limits for the measures, such as personal protec easure it is recommended to use ba a information on Personal Protective t the information leaflet provided by d herein is a recommendation which her the company has additional mea on	monitored in the workplace: e substances contained in the product tive equipment 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 a usures at its disposal.</ukca 			
8.1	Control parameters: Substances whose occu There are no applicable Exposure controls: A Individual protection As a preventative me marking>>. For more protection,) consult information contained it is not known wheth B Respiratory protection The use of protection C Specific protection fo	pational exposure limits have to be occupational exposure limits for the measures, such as personal protec easure it is recommended to use ba a information on Personal Protective t the information leaflet provided by d herein is a recommendation which her the company has additional mea- on equipment will be necessary if a more the hands	monitored in the workplace: e substances contained in the product tive equipment 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 a usures at its disposal.</ukca 			
8.1	Control parameters: Substances whose occu There are no applicable of Exposure controls: A Individual protection of As a preventative mer marking>>. For more protection,) consult information contained it is not known wheth B Respiratory protection The use of protection for C Specific protection for Pictogram Pictogram Mandatory hand protection	pational exposure limits have to be occupational exposure limits for the measures, such as personal protect easure it is recommended to use bat a information on Personal Protective t the information leaflet provided by d herein is a recommendation which her the company has additional mea- on equipment will be necessary if a more the hands <u>PPE</u> Chemical protective gloves	monitored in the workplace: e substances contained in the product tive equipment 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 a isures at its disposal. hist forms or if the occupational exposure limits are exceeded. Remarks</ukca 			
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E.- Body 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		1				

F.- Additional emergency measures

D (

It is not necessary to take additional emergency measures.

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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 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:	1064.6 kg/m ³
Relative density at 20 °C:	1.065
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:	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 inform	ation property of its hazards.



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SEC	SECTION 9: PHYSICAL AND CHEMICAL PROPER Upper flammability limit: Particle characteristics:		TIES (continued)
			Non-applicable *
	Median equivalent	diameter:	Non-applicable
9.2	Other information:		
	Information with regard to physical hazard classes		:
	Explosive properties:		Non-applicable *
	Oxidising propertie	es:	Non-applicable *
	Corrosive to metals	s:	Non-applicable *
	Heat of combustion:		Non-applicable *
	Aerosols-total percentage (by mass) of flammable components:		Non-applicable *
Other safety characteristics:		acteristics:	
	Surface tension at 20 °C:		Non-applicable *
	Refraction index:		Non-applicable *
	*Not relevant due to the	e nature of the product, not providing inform	ation 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 (CO2), 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 (C	ontinued)		
 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 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): 				
IARC: N - Mutage	genicity: Based on available data, the cla on-applicable nicity: Based on available data, the class uctive toxicity: Based on available data, t g effects:	ification criteria are not met	t met	
 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 (STOT)-repeated exposure:				
 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 classification criteria are not met 				
Other inform				
Non-applicabl				
	ology information on the substances			
Not available				
Acute Toxicit	y Estimate (ATE mix):			
	ATE mix		Ingredient(s) of unknown toxicity	
Oral	>5000 mg/kg (Calcula		Non-applicable	
Dermal	>5000 mg/kg (Calcula	,	Non-applicable	
La la la construcción de la constru			The second se	

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

Non-applicable

SECTION 12: ECOLOGICAL INFORMATION

Inhalation



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SECTION 12: ECOLOGICAL INFORMATION (continued)

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

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:

- 14.1 UN number:
- 14.2 UN proper shipping name: Non-applicable 14.3 Transport hazard class(es): Labels:
- 14.4 Packing group:
- Non-applicable Non-applicable Non-applicable No

Non-applicable

- 14.5 Environmental hazards: 14.6 Special precautions for user
- Physico-Chemical properties: see section 9
- 14.7 Transport in bulk according to Non-applicable Annex II of Marpol and the IBC Code:

Transport of dangerous goods by sea:

With regard to IMDG 39-18:



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SECTION 14:	TRANSPORT INFORMATION	N (continued)	
14.1	UN number:	Non-applicable	
14.2	UN proper shipping name:	Non-applicable	3
14.3	Transport hazard class(es):	Non-applicable	
	Labels:	Non-applicable	3
14.4	Packing group:	Non-applicable	3
14.5	Marine pollutant:	No	
14.6	Special precautions for user		
	Special regulations:	Non-applicable	3
	EmS Codes:		
	Physico-Chemical properties:	see section 9	
	Limited quantities:	Non-applicable	
	Segregation group:	Non-applicable	3
14.7	Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicable	3
Transpo	rt of dangerous goods by air:		
With rega	ard to IATA/ICAO 2022:		
14.1	UN number:	Non-applicable	9
14.2	UN proper shipping name:	Non-applicable	e
14.3	Transport hazard class(es):	Non-applicable	e
	Labels:	Non-applicable	9
14.4	Packing group:	Non-applicable	9
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	9

SECTION 15: REGULATORY INFORMATION

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

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

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



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SECTION 16: OTH	HER INFORMATION (continued)		
Non-applicable	e		
Classification	ı procedure:		
Non-applicable			
Advice related	d to training:		
	ommended in order to prevent industrial r of this safety data sheet, as well as the lat	isks for staff using this product and to facilitate their comprehension and bel on the product.	
Principal bibli	iographical sources:		
http://echa.eur	opa.eu		
http://eur-lex.e	uropa.eu		
Abbreviations	s and acronyms:		
ADR: Europea	an agreement concerning the international	l carriage of dangerous goods by road	
	tional maritime dangerous goods code		
	onal Air Transport Association		
	tional Civil Aviation Organisation		
	al Oxygen Demand		
BOD5: 5day bi BCF: Bioconce	iochemical oxygen demand		
LD50: Lethal D			
	Concentration 50		
	coefficient of organic carbon		
UFI: unique for	rmula identifier		
	ional Agency for Research on Cancer		
EC50: Effective LogPOW: Octa Koc: Partition o UFI: unique for	e concentration 50 anolwater partition coefficient coefficient of organic carbon rmula 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.



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SEC	CTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING	G	
.1	Product identifier: Fragment Buffer S		
	Other means of identification:		
	SFB		
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		
.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/		
.4	Emergency telephone number: +44 (0)845 034 7900 (9am-5:30pm GMT)		
_		_	
SEC	CTION 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:		

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 flammabliity 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 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:

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



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SEC	TION 7: HANDLI	NG AND STORAGE (continued)					
	Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain orde cleanliness where dangerous products are used. B Technical recommendations for the prevention of fires and explosions						
	products. Con	ded to transfer at a slow speed to avoid sult section 10 for conditions and materia mmendations on general occupational h					
		afterwards with suitable cleaning products.					
	D Technical reco						
			t environmental risks. For more information see subsection 6.2				
7.2		fe storage, including any incompatibi					
	A Technical mea						
	Maximum time	C					
	B General condi	ions for storage					
			contact with food. For additional information see subsection 10.5				
7.3	Specific end use						
	-		sary to provide any special recommendation regarding the uses of this				
	P. 04401						
<u>ег</u> с		JRE CONTROLS/PERSONAL PR					
SEC	TION 6. EAPOS	JRE CONTROLS/PERSONAL PR	OTECTION				
8.1	Control paramete	rs:					
	Substances whose	e occupational exposure limits have to be	e monitored in the workplace:				
	There are no appl	cable occupational exposure limits for th	ne substances contained in the product				
8.2	Exposure contro	s:					
	A Individual prote	ection measures, such as personal prote	ective 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.</ukca>						
		ntained herein is a recommendation which	ch needs some specification from the labour risk prevention services a				
		ntained herein is a recommendation which whether the company has additional me	ch needs some specification from the labour risk prevention services as				
	it is not known B Respiratory pr The use of pro	ntained herein is a recommendation whic whether the company has additional me otection tection equipment will be necessary if a	ch needs some specification from the labour risk prevention services as				
	it is not known B Respiratory pr	ntained herein is a recommendation whic whether the company has additional me otection tection equipment will be necessary if a	ch needs some specification from the labour risk prevention services as easures at its disposal.				
	it is not known B Respiratory pr The use of pro	ntained herein is a recommendation whic whether the company has additional me otection tection equipment will be necessary if a	ch needs some specification from the labour risk prevention services as easures at its disposal.				
	it is not known B Respiratory pro The use of pro C Specific protect Pictogram Mandatory hand	Antained herein is a recommendation which whether the company has additional metotection tection equipment will be necessary if a store for the hands PPE Chemical protective gloves	ch needs some specification from the labour risk prevention services as easures at its disposal. mist forms or if the occupational exposure limits are exceeded.				
	it is not known B Respiratory pro The use of pro C Specific protect Pictogram Mandatory hand protection As the product	ntained herein is a recommendation which whether the company has additional methetection tection equipment will be necessary if a store for the hands	ch needs some specification from the labour risk prevention services as easures at its disposal. mist forms or if the occupational exposure limits are exceeded. Remarks Replace the gloves at any sign of deterioration. resistance of the glove material can not be calculated in advance with				
	it is not known B Respiratory pro- The use of pro C Specific protect Pictogram Mandatory hand protection As the product total reliability	ntained herein is a recommendation which whether the company has additional methetection tection equipment will be necessary if a store for the hands	ch needs some specification from the labour risk prevention services as easures at its disposal. mist forms or if the occupational exposure limits are exceeded. Remarks Replace the gloves at any sign of deterioration. resistance of the glove material can not be calculated in advance with				
	it is not known B Respiratory pro The use of pro C Specific protect Pictogram Mandatory hand protection As the product	ntained herein is a recommendation which whether the company has additional methetection tection equipment will be necessary if a store for the hands	ch needs some specification from the labour risk prevention services as easures at its disposal. mist forms or if the occupational exposure limits are exceeded. Remarks Replace the gloves at any sign of deterioration. resistance of the glove material can not be calculated in advance with				
	it is not known B Respiratory pro- The use of pro C Specific protect Pictogram Mandatory hand protection As the product total reliability	ntained herein is a recommendation which whether the company has additional methetection tection equipment will be necessary if a store for the hands	ch needs some specification from the labour risk prevention services as easures at its disposal. mist forms or if the occupational exposure limits are exceeded. Remarks Replace the gloves at any sign of deterioration. resistance of the glove material can not be calculated in advance with				
	it is not known B Respiratory pro- The use of pro- C Specific protect Pictogram Mandatory hand protection As the product total reliability D Eye and face p	Antained herein is a recommendation which whether the company has additional metotection tection equipment will be necessary if a store for the hands	ch needs some specification from the labour risk prevention services as easures at its disposal. mist forms or if the occupational exposure limits are exceeded. Remarks Replace the gloves at any sign of deterioration. resistance of the glove material can not be calculated in advance with the application.				



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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 emerg	ency measures	1				

It is not necessary to take additional emergency measures.

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Environmental exposure controls:

D (

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 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:	1064.5 kg/m ³
Relative density at 20 °C:	1.064
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 inform	ation property of its hazards.



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SEC	SECTION 9: PHYSICAL AND CHEMICAL PROPERT Upper flammability limit: Particle characteristics:		RTIES (continued)
			Non-applicable *
	Median equivale	ent diameter:	Non-applicable
9.2	Other informat	ion:	
	Information wi	th regard to physical hazard classes	s:
	Explosive properties:		Non-applicable *
	Oxidising properties: Corrosive to metals:		Non-applicable *
			Non-applicable *
	Heat of combustion:		Non-applicable *
	Aerosols-total percentage (by mass) of flammable components:		Non-applicable *
	Other safety cl	haracteristics:	
Surface tens		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	s Water Oxidising materials Combustible materials		Combustible materials	Others
Avoid strong acids	Not applicable	Not applicable	Not applicable	Avoid alkalis or strong bases

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO2), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

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 (c	continued)	
- Corrosi	oxicity :Based on available data, the cla vity/Irritability: Based on available data, t ith the skin and the eyes (acute effect):		
- Contact	with the skin: Based on available data, with the eyes: Based on available data, sts (carcinogenicity, mutagenicity and tox	the classification criteria are	
IARC: N - Mutage	genicity: Based on available data, the cl on-applicable nicity: Based on available data, the class uctive toxicity: Based on available data, g effects:	sification criteria are not met	t
- Skin: Ba	tory: Based on available data, the classi ased on available data, the classification rget organ toxicity (STOT) - single expos	criteria are not met	
Based on	available data, the classification criteria	are not met	
G- Specific ta	rget organ toxicity (STOT)-repeated exp	oosure:	
- Skin: Ba hazardous H- Aspiration	ased on available data, the classification of this effect. For more information see	e criteria are not met, as it do e section 3.	le data, the classification criteria are not met bes not contain substances classified as
Other inform			
Non-applicabl			
	ິ cology information on the substances		
-			
Not available			
Acute Toxicit	y Estimate (ATE mix):		
	ATE mix		Ingredient(s) of unknown toxicity
Oral	>5000 mg/kg (Calcul	ation method)	Non-applicable
Dermal	>5000 mg/kg (Calcul	ation method)	Non-applicable
1 1 1 1		1.0.0.0	

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

Non-applicable

SECTION 12: ECOLOGICAL INFORMATION

Inhalation



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SECTION 12: ECOLOGICAL INFORMATION (continued)

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

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:

- 14.1 UN number:
- 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 Non-applicable Non-applicable No

Non-applicable

- 14.5Environmental hazards:No14.6Special precautions for user
 - Physico-Chemical properties: see section 9
- 14.7 Transport in bulk according to Non-applicable Annex II of Marpol and the IBC Code:

Transport of dangerous goods by sea:

With regard to IMDG 39-18:



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SECTION 14:	TRANSPORT INFORMATION	N (continued)	
14.1	UN number:	Non-applicable	9
14.2	UN proper shipping name:	Non-applicable	9
14.3	Transport hazard class(es):	Non-applicable	
	Labels:	Non-applicable	
14.4	Packing group:	Non-applicable	9
14.5	Marine pollutant:	No	
14.6	Special precautions for user		
	Special regulations:	Non-applicable	9
	EmS Codes:		
	Physico-Chemical properties:	see section 9	
	Limited quantities:	Non-applicable	
	Segregation group:	Non-applicable	3
14.7	Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicable	3
Transpo	rt of dangerous goods by air:		
With rega	ard to IATA/ICAO 2022:		
14.1	UN number:	Non-applicable	e
14.2	UN proper shipping name:	Non-applicable	e
14.3	Transport hazard class(es):	Non-applicable	e
	Labels:	Non-applicable	e
14.4	Packing group:	Non-applicable	e
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	3

SECTION 15: REGULATORY INFORMATION

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

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

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



Fragment Buffer S

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SECTION 16: OTH	IER INFORMATION (continued)	
Non-applicable	8	
Classification	procedure:	
Non-applicable	- - -	
Advice related	d to training:	
	ommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and of this safety data sheet, as well as the label on the product.	
Principal biblio	iographical sources:	
http://echa.euro	opa.eu	
http://eur-lex.eu	uropa.eu	
Abbreviations	s and acronyms:	
ADR: Europear	n agreement concerning the international carriage of dangerous goods by road	
	tional maritime dangerous goods code	
	onal Air Transport Association	
	ional Civil Aviation Organisation	
	al Oxygen Demand	
BOD5: 5day bid BCF: Bioconce	iochemical oxygen demand	
LD50: Lethal D		
	Concentration 50	
	e concentration 50	
	anolwater partition coefficient	
ů, na stalo	coefficient of organic carbon	
UFI: unique for	mula identifier	
IARC: Internation	ional 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 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 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, c	current legislation concerning the preven leanliness and destroy using safe methor mendations for the prevention of fires an			
	products. Consul	ed to transfer at a slow speed to avoid the t 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.				
Do not eat or drink during the process, washing hands alterwards with suitable cleaning products. D Technical recommendations to prevent environmental risks					
			vironmental risks. For more information see subsection 6.2		
7.2		storage, including any incompatibiliti			
	A Technical measu				
	Maximum time:	12 Months			
	B General condition	ns for storage			
	Avoid sources of	heat, radiation, static electricity and cont	tact with food. For additional information see subsection 10.5		
7.3	Specific end use(s)				
			ry to provide any special recommendation regarding the uses of this		
			TEATION		
		RE CONTROLS/PERSONAL PRO	TECTION		
B.1	Control parameters				
		occupational exposure limits have to be n			
		ble occupational exposure limits for the s	substances contained in the product		
8.2	Exposure controls:				
	As a preventative marking>>. For r protection,) co information conta	nore information on Personal Protective I nsult the information leaflet provided by t ined 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</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 a mixture of several substances, the resistance of the glove material can not be calculated in adva total reliability and has therefore to be checked prior to the application. D Eye and face protection					
	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				



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)					
	Pictogram	PPE	Remarks		
Work clothing		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 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 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:	1043 kg/m ³
Relative density at 20 °C:	1.043
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 inf	ormation property of its hazards.



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SEC	TION 9: PHYSICAL AND CHEMICAL P	ROPERTIES (continued)
	Upper flammability limit:	Non-applicable *
	Particle characteristics:	
	Median equivalent diameter:	Non-applicable
9.2	Other information:	
	Information with regard to physical hazard	l 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 provi	ding 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 (CO), 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: TOXICOLOGICAL INFORMATION (continued)	
 Acute toxicity : Based on available data, the classification criteria are not met Corrosivity/Irritability: Based on available data, the classification criteria are not Contact with the skin and the eyes (acute effect): 	t met
 Contact with the skin: Based on available data, the classification criteria are no Contact with the eyes: Based on available data, the classification criteria are no D- 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 no E- 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 (STOT)-repeated exposure:	
 Specific target organ toxicity (STOT)-repeated exposure: Based on available date of the second second	ata, the classification criteria are not met not contain substances classified as
Based on available data, the classification criteria are not met	
Other information:	
Non-applicable	
Specific toxicology information on the substances:	
Not available	
Acute Toxicity Estimate (ATE mix):	
ATE mix	Ingredient(s) of unknown toxicity

ATE mix		Ingredient(s) of unknown toxicity
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:

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 Wa

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
	<u>-</u>	

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:

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	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
		Non-applicable
	Transport hazard class(es):	
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: 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:	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:	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: Limited quantities:	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	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 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 -



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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)
SEC	CTION 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 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



Printing: 06/09/2022 Date of compilation: 22/06/2022 Version: 1 SECTION 7: HANDLING AND STORAGE (continued) Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and destroy 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. 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 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 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: 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 PPE Pictogram Remarks Chemical protective gloves Replace the gloves at any sign of deterioration. Mandatory hand protecti 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 PPF Remarks Clean daily and disinfect periodically according to the manufacturer's instructions. Panoramic glasses against splash/projections. Use if there is a risk of splashing. Mandatory face protection E.- Body 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 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 infor	mation property of its hazards.



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SEC	TION 9: PHYSICAL AND CHEMICAL	PROPERTIES (continued)
	Upper flammability limit:	Non-applicable *
	Particle characteristics:	
	Median equivalent diameter:	Non-applicable
9.2	Other information:	
	Information with regard to physical haza	rd 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 flam components:	mable 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 pro	viding 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 (CO), 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: TOXICOLOGICAL INFORMATION (continued)	
 Acute toxicity : Based on available data, the classification criteria are not r Corrosivity/Irritability: Based on available data, the classification criteria are Contact with the skin and the eyes (acute effect): 	
 Contact with the skin: Based on available data, the classification criteria ar Contact with the eyes: Based on available data, the classification criteria a D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction): 	
 Carcinogenicity: Based on available data, the classification criteria are not IARC: Non-applicable Mutagenicity: Based on available data, the classification criteria are not me Reproductive toxicity: Based on available data, the classification criteria ar E- Sensitizing effects: 	et
 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: 	t
Based on available data, the classification criteria are not met	
G- Specific target organ toxicity (STOT)-repeated exposure:	
 Specific target organ toxicity (STOT)-repeated exposure: Based on available Skin: Based on available data, the classification criteria are not met, as it d hazardous for this effect. For more information see section 3. H- Aspiration hazard: 	ble data, the classification criteria are not met does not contain substances classified as
Based on available data, the classification criteria are not met	
Other information:	
Non-applicable	
Specific toxicology information on the substances:	
Not available	
Acute Toxicity Estimate (ATE mix):	
ATE mix	Ingredient(s) of unknown toxicity

	Ingredient(s) of unknown toxicity	
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:

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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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

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:	
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: 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:	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:	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: Limited quantities:	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	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):	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
L		
SECTION 15:	REGULATORY INFORMATIC	DN

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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Version: 1

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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 -



rinting	: 06/09/2022 Date of compilation: 06/09/2022 Revised: 06/09/2022 Version: 3 (Replaced 2)
SEC	TION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1	Product identifier: Native Adapter
	Other means of identification:
	NA
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	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)
	http://www.nanoporetech.com/ Emergency telephone number: +44 (0)845 034 7900 (9am-5:30pm GMT)
	http://www.nanoporetech.com/
	http://www.nanoporetech.com/ Emergency telephone number: +44 (0)845 034 7900 (9am-5:30pm GMT)
SEC	http://www.nanoporetech.com/ Emergency telephone number: +44 (0)845 034 7900 (9am-5:30pm GMT)
SEC 2.1	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	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	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	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	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
SEC 2.1	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:
SEC 2.1 2.2	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. P501: Dispose of the contents and/or its container using the separate collection system in your municipality.
SEC 2.1	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.

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 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:



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 Mandatory hand protection
 Mandatory hand

 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 Body protection Pictogram PPE Remarks Work clothing Replace before any evidence of deterioration. For periods of prolonged exposito the product for professional/industrial users CE III is recommended, in	CTION 8: EXPOSI	JRE CONTROLS/PERSO	NAL PROTECTION (continued)
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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 information	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 *	
	components:	percentage (by mass) of flammable	Non-applicable *	
	Surface tension		Non-applicable *	
	Refraction inde		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 (CO), 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 (acute effect):					
 Corrosivity/I 	ty : Based on available data, the cl Irritability: Based on available data, ne skin and the eyes (acute effect):	the classification criteria are	et not met		
 Contact with 	h the skin: Based on available data, h the eyes: Based on available data carcinogenicity, mutagenicity and to	a, the classification criteria ar			
IARC: Non-a - Mutagenicit	y: Based on available data, the clas ve toxicity: Based on available data,	ssification criteria are not me			
- Skin: Based	: Based on available data, the class I on available data, the classification : organ toxicity (STOT) - single expo	n criteria are not met			
Based on avai	lable data, the classification criteria	are not met			
G- Specific target	organ toxicity (STOT)-repeated ex	posure:			
 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 classification criteria are not met 					
Other information:					
Other Information	n:				
Non-applicable					
Specific toxicolo	gy information on the substance	s:			
Not available					
Acute Toxicity E	stimate (ATE mix):				
, , , , , , , , , , , , , , , , , , ,	ATE mix		Ingredient(s) of unknown toxicity		
Oral	>5000 mg/kg (Calcu	ulation method)	Non-applicable		
Dermal	>5000 mg/kg (Calcu	ulation method)	Non-applicable		
	>20 mg/L (4 h) (Cal	and all and an address of the	Non-applicable		

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



Native Adapter

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SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

	Code	Description	Waste class
I	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:

5		
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
14.1	UN proper shipping name:	Non-applicable
14.2	Transport hazard class(es):	Non-applicable
14.5	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	Non-applicable
	Annex II of Marpol and the IBC	
	Code:	
Transpor	t of dangerous goods by air:	
With rega	rd to IATA/ICAO 2022	

With regard to IATA/ICAO 2022:

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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: I	REGULATORY INFORMATIC	DN .		
	alth and onvironmontal regulation			

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:

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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: Internation IATA: Internation ICAO: Internation COD: Chemica BOD5: 5day bit BCF: Bioconce LD50: Lethal D LC50: Lethal D EC50: Effective LogPOW: Octa Koc: Partition of UFI: unique for	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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SEC	TION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1	Product identifier: Native Barcodes
	Other means of identification: NB01
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)

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 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



C. D. 7.2 Co A. B. 7.3 Sp Pr SECTIC 3.1 Co SL SL SL A. B.	Maintain order, cl - Technical recomm It is recommende products. Consulf - Technical recomm Do not eat or drin - Technical recomm It is not necessar onditions for safe - Technical measu Maximum time: - General condition Avoid sources of pecific end use(s): xcept for the instruct oduct. DN 8: EXPOSUR ontrol parameters ubstances whose o here are no applical xposure controls: - Individual protecti As a preventative marking>>. For m protection,) cor	eanliness and destroy using safe method nendations for the prevention of fires and d to transfer at a slow speed to avoid the section 10 for conditions and materials nendations on general occupational hygi k during the process, washing hands aften nendations to prevent environmental risk y to take special measures to prevent en storage, including any incompatibiliti res for storage 12 Months as for storage heat, radiation, static electricity and cont tions already specified it is not necessar E CONTROLS/PERSONAL PRO coupational exposure limits have to be mole occupational exposure limits for the s on measures, such as personal protective measure it is recommended to use basi incore information on Personal Protective E	d explosions e creation of electrostatic charges that could affect flammable that should be avoided. iene erwards with suitable cleaning products. ks 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 ve equipment ic Personal Protective Equipment, with the corresponding < <ukca< th=""></ukca<>			
C. D. 7.2 Co A. B. 7.3 Sp Pr SECTIC 3.1 Co SL SL SL A. B.	It is recommende products. Consult - Technical recomm Do not eat or drin - Technical recomm It is not necessary onditions for safe - Technical measu Maximum time: - General condition Avoid sources of pecific end use(s): xcept for the instruc- oduct. - N 8: EXPOSUR ontrol parameters ubstances whose o here are no applical xposure controls: - Individual protecti As a preventative marking>>. For m protection,) cor	d to transfer at a slow speed to avoid the section 10 for conditions and materials nendations on general occupational hygi k during the process, washing hands aften nendations to prevent environmental risk y to take special measures to prevent en storage, including any incompatibiliti res for storage 12 Months is for storage heat, radiation, static electricity and cont tions already specified it is not necessar ECONTROLS/PERSONAL PRO coupational exposure limits have to be mole occupational exposure limits for the s on measures, such as personal protective measure it is recommended to use basi iore information on Personal Protective E	e creation of electrostatic charges that could affect flammable that should be avoided. iene erwards with suitable cleaning products. ks invironmental risks. For more information see subsection 6.2 ies: tact with food. For additional information see subsection 10.5 by to provide any special recommendation regarding the uses of this TECTION nonitored in the workplace: substances contained in the product ve equipment ic Personal Protective Equipment, with the corresponding < <ukca< th=""></ukca<>			
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A. B. 7.3 Sp Expro SECTIC 3.1 Co Su B.2 Ex A. B.	Technical measu Maximum time: General condition Avoid sources of pecific end use(s): xcept for the instruc- oduct. ON 8: EXPOSUR ontrol parameters ubstances whose o here are no applical xposure controls: - Individual protecti As a preventative marking>>. For m protection,) cor	res for storage 12 Months is for storage heat, radiation, static electricity and cont tions already specified it is not necessar E CONTROLS/PERSONAL PRO ccupational exposure limits have to be mole occupational exposure limits have to be mole on measures, such as personal protective measure it is recommended to use basi- nore information on Personal Protective E	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 ve equipment ic Personal Protective Equipment, with the corresponding < <ukca< td=""></ukca<>			
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7.3 Sr Expr BECTIC 3.1 Co Su Th 3.2 Ex A. B.	 General condition Avoid sources of pecific end use(s): except for the instruct oduct. ON 8: EXPOSUR ontrol parameters ubstances whose on here are no applical posure controls: Individual protection As a preventative marking>>. For m protection,) cor 	Is for storage heat, radiation, static electricity and cont tions already specified it is not necessar ECONTROLS/PERSONAL PRO Compational exposure limits have to be mole occupational exposure limits for the s on measures, such as personal protective measure it is recommended to use basi for information on Personal Protective E	ry to provide any special recommendation regarding the uses of this TECTION nonitored in the workplace: substances contained in the product ve equipment ic Personal Protective Equipment, with the corresponding < <ukca< td=""></ukca<>			
7.3 Sr Expr BECTIC 3.1 Co Su Th 3.2 Ex A. B.	Avoid sources of pecific end use(s): accept for the instruc- oduct. DN 8: EXPOSUR ontrol parameters ubstances whose on here are no applical xposure controls: - Individual protecti As a preventative marking>>. For m protection,) cor	heat, radiation, static electricity and cont tions already specified it is not necessar <u>E CONTROLS/PERSONAL PRO</u> ccupational exposure limits have to be m ble occupational exposure limits for the s on measures, such as personal protectiv measure it is recommended to use basi fore information on Personal Protective E	ry to provide any special recommendation regarding the uses of this TECTION nonitored in the workplace: substances contained in the product ve equipment ic Personal Protective Equipment, with the corresponding < <ukca< td=""></ukca<>			
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3.1 Co Su Th 3.2 Ex A B	ontrol parameters ubstances whose o nere are no applical xposure controls: - Individual protecti As a preventative marking>>. For m protection,) cor	: ccupational exposure limits have to be m ole occupational exposure limits for the s on measures, such as personal protectiv measure it is recommended to use basi fore information on Personal Protective E	nonitored in the workplace: substances contained in the product ve equipment ic Personal Protective Equipment, with the corresponding < <ukca< td=""></ukca<>			
3.1 Co Su Th 3.2 Ex A B	ontrol parameters ubstances whose o nere are no applical xposure controls: - Individual protecti As a preventative marking>>. For m protection,) cor	: ccupational exposure limits have to be m ole occupational exposure limits for the s on measures, such as personal protectiv measure it is recommended to use basi fore information on Personal Protective E	nonitored in the workplace: substances contained in the product ve equipment ic Personal Protective Equipment, with the corresponding < <ukca< td=""></ukca<>			
Su Th 3.2 Ex A. B.	ubstances whose o nere are no applical xposure controls: - Individual protecti As a preventative marking>>. For m protection,) cor	ccupational exposure limits have to be m ole occupational exposure limits for the s on measures, such as personal protectiv measure it is recommended to use basi fore information on Personal Protective E	substances contained in the product ve equipment ic Personal Protective Equipment, with the corresponding < <ukca< td=""></ukca<>			
Su Th 3.2 Ex A. B.	ubstances whose o nere are no applical xposure controls: - Individual protecti As a preventative marking>>. For m protection,) cor	ccupational exposure limits have to be m ole occupational exposure limits for the s on measures, such as personal protectiv measure it is recommended to use basi fore information on Personal Protective E	substances contained in the product ve equipment ic Personal Protective Equipment, with the corresponding < <ukca< td=""></ukca<>			
Th 3.2 Ex A.· B.·	nere are no applical xposure controls: - Individual protecti As a preventative marking>>. For m protection,) cor	ole occupational exposure limits for the s on measures, such as personal protectiv measure it is recommended to use basi fore information on Personal Protective E	substances contained in the product ve equipment ic Personal Protective Equipment, with the corresponding < <ukca< td=""></ukca<>			
3.2 Ех А. В.	 Individual protecti As a preventative marking>>. For m protection,) cor 	on measures, such as personal protectiv measure it is recommended to use basi fore information on Personal Protective E	ve equipment ic Personal Protective Equipment, with the corresponding < <ukca< td=""></ukca<>			
А В	 Individual protection As a preventative marking>>. For m protection,) cor 	measure it is recommended to use basi ore information on Personal Protective E	ic Personal Protective Equipment, with the corresponding < <ukca< td=""></ukca<>			
B.	As a preventative marking>>. For m protection,) cor	measure it is recommended to use basi ore information on Personal Protective E	ic Personal Protective Equipment, with the corresponding < <ukca< td=""></ukca<>			
C	 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. 					
	-		si forms of in the occupational exposure limits are exceeded.			
0.	- Specific protectio					
	Pictogram	PPE	Remarks			
	Mandatory hand protection	Chemical protective gloves	Replace the gloves at any sign of deterioration.			
D.	As the product is	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					
L.·	- body 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 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:	1033.6 kg/m ³
Relative density at 20 °C:	1.034
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:	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	SECTION 9: PHYSICAL AND CHEMICAL PROPER		RTIES (continued)
	Upper flammabi	lity limit:	Non-applicable *
	Particle charac	teristics:	
	Median equivale	ent diameter:	Non-applicable
9.2	Other informat	ion:	
	Information with regard to physical hazard classes		95:
	Explosive properties:		Non-applicable *
	Oxidising prope	rties:	Non-applicable *
	Corrosive to me	tals:	Non-applicable *
	Heat of combus	tion:	Non-applicable *
	Aerosols-total percentage (by mass) of flammable components:		Non-applicable *
	Other safety characteristics:		
	Surface tension	at 20 °C:	Non-applicable *
	Refraction index	C.	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 (CO), 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: TO	(ICOLOGICAL INFORMATION (continued)	
- Corrosiv	xicity :Based on available data, the cla ity/Irritability: Based on available data, th the skin and the eyes (acute effect):		t met
- Contact	with the skin: Based on available data, with the eyes: Based on available data ts (carcinogenicity, mutagenicity and to	, the classification criteria are n	
IARC: No - Mutager	genicity: Based on available data, the c on-applicable nicity: Based on available data, the clas ictive toxicity: Based on available data, effects:	ssification criteria are not met	
- Skin: Ba	cory: Based on available data, the class sed on available data, the classificatior get organ toxicity (STOT) - single expo	n criteria are not met	
Based on a	available data, the classification criteria	are not met	
G- Specific tar	rget organ toxicity (STOT)-repeated exp	posure:	
- Skin: Ba	sed on available data, the classification for this effect. For more information see	n criteria are not met, as it does	lata, the classification criteria are not met not contain substances classified as
Based on a	available data, the classification criteria	are not met	
Other informa	ition:		
Non-applicable	e e e e e e e e e e e e e e e e e e e		
Specific toxic	ology information on the substances	s:	
Not available			
Acute Toxicity	y Estimate (ATE mix):		
	ATE mix		Ingredient(s) of unknown toxicity

	ATE mix	
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:

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:

withinge		
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
	UN proper shipping name: Transport hazard class(es):	Non-applicable Non-applicable
14.2 14.3	UN proper shipping name: Transport hazard class(es): Labels:	Non-applicable
	Transport hazard class(es): Labels:	Non-applicable Non-applicable
14.3 14.4	Transport hazard class(es): Labels: Packing group:	Non-applicable
14.3	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
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:	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 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:	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	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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14.1	UN number:	Non-applicable
	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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SECTION 16: OTH	HER INFORMATION (continued)		
IMDG: Internation IATA: Internation ICAO: Internation ICAO: Internation BOD5: 5day bit BCF: Bioconce LD50: Lethal Display LC50: Lethal Display LC50: Effective LogPOW: Octation Koc: Partition of UFI: unique for	Coose 50 Concentration 50 e concentration 50 anolwater partition coefficient coefficient of organic carbon	al carriage of dangerous goods by ro	Jad

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 -



Sequencing Buffer / RNA Running Buffer

FC	CTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAK	NG
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:	
1.5	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)	
1.4	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	
SEC	CTION 2: HAZARDS IDENTIFICATION	
SEC	CTION 2: HAZARDS IDENTIFICATION Classification of the substance or mixture:	
SEC	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:	
SEC 2.1	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	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	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	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	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.	
SEC 2.1	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.	

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: FIRS	T AID MEASURES (continued)		
	By eye conta	ct:		
	Rinse with wa	ter until the product has been elimina	ated. In case of problems, cons	sult a doctor showing the SDS for the product.
	By ingestion/	aspiration:		
	In case of con	sumption in large quantities, it is reco	ommended to seek medical as	sistance.
4.2	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 a	and special treatment needed	1:
	Non-applicabl	e		
5.1	Extinguishing	ı media:		
5.1				
5.1	Suitable extin Product is non storage, handl any type of ext	guishing media: -flammable, with a low risk of fire due	nce of sustained combustion a	stics of the product in normal conditions of s a result of improper handling, storage or use
5.1	Suitable extin Product is non storage, handl any type of ext	guishing media: -flammable, with a low risk of fire due ing and use. In the case of the existe inguishing agent can be used (ABC tinguishing media:	nce of sustained combustion a	
5.1	Suitable extin Product is non storage, handl any type of ext Unsuitable ex Non-applicable	guishing media: -flammable, with a low risk of fire due ing and use. In the case of the existe inguishing agent can be used (ABC tinguishing media:	nce of sustained combustion a Powder, water,)	
	Suitable extin Product is non storage, handl any type of ext Unsuitable ex Non-applicable Special hazar	guishing media: -flammable, with a low risk of fire due ing and use. In the case of the existe inguishing agent can be used (ABC tinguishing media: e ds arising from the substance or r	nce of sustained combustion a Powder, water,) nixture:	
	Suitable extin Product is non storage, handl any type of ext Unsuitable ex Non-applicable Special hazar	guishing media: -flammable, with a low risk of fire due ing and use. In the case of the existe inguishing agent can be used (ABC tinguishing media: e ds arising from the substance or n mmable nature, the product does not	nce of sustained combustion a Powder, water,) nixture:	s a result of improper handling, storage or use
5.2	Suitable extin Product is non storage, handl any type of ext Unsuitable ex Non-applicable Special hazar Due to its infla Advice for fire Depending on	guishing media: -flammable, with a low risk of fire due ing and use. In the case of the existe inguishing agent can be used (ABC tinguishing media: ds arising from the substance or r mmable nature, the product does not efighters: the magnitude of the fire it may be n num emergency facilities and equipm	nce of sustained combustion a Powder, water,) nixture: t present a fire risk under norma ecessary to use full protective o	al 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:

- CONTINUED ON NEXT PAGE -

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-				
SEC	CTION 7: HANDLING AND STORAGE (continued)			
	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 destroy 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. 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 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 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.			
SEC	CTION 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</ukca>			
	The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded			

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.

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	Body protection		



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CTION 8: EXPOSURE CONTROLS	PERSONAL P	PROTECTION (continued)
Pictogram	PPE	Remarks
	rk clothing	Replace before any evidence of deterioration. For periods of prolonged expos 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	al emergency mea	sures
-		
Environmental exposure controls: In accordance with the community legis spillage of both the product and its con		ection of the environment it is recommended to avoid environmental nal information see subsection 7.1.D
CTION 9: PHYSICAL AND CHEMIC	CAL PROPERT	IES
Information on basic physical and c		es:
For complete information see the produ	uct datasheet.	
Appearance:		Liquid
Physical state at 20 °C:		Colorless
Appearance: Colour:		Colourless
Odour:		Odourless
Odour threshold:		Non-applicable *
Volatility:		400.00
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:		4405 7 1 - (3
Density at 20 °C:		1105.7 kg/m³
Relative density at 20 °C:		
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		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: PHYS	ICAL AND CHEMICAL PROPER	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 classes	s:	
	Explosive prope	erties:	Non-applicable *	
	Oxidising prope	rties:	Non-applicable *	
	Corrosive to metals:		Non-applicable *	
	Heat of combustion:		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	C.	Non-applicable *	

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	Shock and friction Contact with air		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 (CO), 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	(ICOLOGICAL 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 CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction): 						
IARC: No - Mutager	genicity: Based on available data, the c on-applicable nicity: Based on available data, the clas nctive toxicity: Based on available data, effects:	sification criteria are not met					
- 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	tion:						
Non-applicable							
	Specific toxicology information on the substances:						
-		<i>.</i>					
Not available							
Acute Toxicity Estimate (ATE mix):							
	ATE mix		Ingredient(s) of unknown toxicity				
Oral	>5000 mg/kg (Calcu		Non-applicable				
Dermal	>5000 mg/kg (Calcu		Non-applicable				
Inhalation	>20 mg/L (4 h) (Calc	culation 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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ECT	ION 13:	DISPOSAL CONSIDERATIO	NS				
		atment methods:					
0.1			Description	Wests sleep			
	Code 16 05 09	discarded chemicals other than thes	Description e mentioned in 16 05 06, 16 05 07 or 16 05 08	Waste class Non dangerous			
		I		Non dangerous			
	Type of w						
	Non-applicable						
	Waste ma	inagement (disposal and evaluat	ion):				
	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 accorda	ince with Annex II of UK REACH t	he provisions related to waste management are state	ed:			
	UK legisla	tion: The Waste Regulations 2011.					
ECT	TON 14:	TRANSPORT INFORMATION	N				
	Other in	formation:					
			regulations on the transport of dangerous goods (IME	DG, IATA, ADR/RID).			
		rt of dangerous goods by land:					
	With rega	ard to ADR 2021 and RID 2021:					
		UN number:	Non-applicable				
		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		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				
	Transpo	rt of dangerous goods by sea:					
	With rega	ard to IMDG 40-20:					
	14.1		Non-applicable				
		UN proper shipping name:	Non-applicable				
	14.3	Transport hazard class(es):	Non-applicable				
		Labels:	Non-applicable				
	14.4 14.5	Packing group: Marine pollutant:	Non-applicable No				
	14.5	· · · · · · · · · · · · · · · · · · ·					
		Special regulations:	Non-applicable				
		EmS Codes:					
		Physico-Chemical properties:	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:					
	\A/:41	ard to IATA/ICAO 2022:					

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SECTION 14:	TRANSPORT INFORMATION	N (continued)	
14.2 14.3 14.4 14.5 14.6	UN number: UN proper shipping name: Transport hazard class(es): Labels: Packing group: Environmental hazards: Special precautions for user Physico-Chemical properties: Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicable Non-applicable Non-applicable Non-applicable No see section 9 Non-applicable	
5.1 Safety, he - Substand - Substand Restrictio etc):	ces listed in UK candidate list of su ces listed in UK REACH Authorisati ns to commercialisation and the	ons/legislation specific for the sub- bstances of very high concern (SVHC ion List (Annex 14): Non-applicable	
Non-applic Specific p	cable provisions in terms of protecting	people or the environment:	
	nts in order to establish the necess		asis for conducting workplace-specific risk handling, use, storage and disposal of this
The Chem Regulatior Control of		etically Modified Organisms (Containe	ed Use) (Amendment etc.) (EU Exit)
SECTION 16:	OTHER INFORMATION		
	n related to safety data sheets: / data sheet has been designed in	accordance with ANNEX II-The REA	CH etc. (Amendment etc.) (EU Exit) Regulations
	he legislative phrases mentioned es indicated do not refer to the pro	d in section 3: duct itself; they are present merely fo	r informative purposes and refer to the

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)			
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- END OF SAFETY DATA SHEET -

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