

r mang.	15/09/2023 Date of compilation: 24/01/2022 Version: 1
SEC	TION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1	Product identifier: AMPure XP Beads / SPRI Beads
	Other means of identification:
	VXP, AXP, SPRI
1.2	Relevant identified uses of the substance or mixture and uses advised against:
	Relevant uses: Research use only
	Uses advised against: All uses not specified in this section or in section 7.3
1.3	Details of the supplier of the safety data sheet:
	Oxford Nanopore Technologies Gosling Building, Edmund Halley Road, Oxford Science Park OX4 4DQ Oxford - Oxon - England Phone: +44 (0)845 034 7900 - Fax: +44 (0)845 034 7901 http://www.nanoporetech.com/
1.4	Emergency telephone number: +44 (0)845 034 7900 (9am-5:30pm GMT)
SEC	TION 2: HAZARDS IDENTIFICATION
SEC ⁷ 2.1	TION 2: HAZARDS IDENTIFICATION Classification of the substance or mixture:
2.1	Classification of the substance or mixture: GB CLP Regulation: The product is not classified as hazardous according to GB CLP Regulation.
	Classification of the substance or mixture: GB CLP Regulation: The product is not classified as hazardous according to GB CLP Regulation. Label elements:
2.1	Classification of the substance or mixture: GB CLP Regulation: The product is not classified as hazardous according to GB CLP Regulation. Label elements: GB CLP Regulation:
2.1	Classification of the substance or mixture: GB CLP Regulation: The product is not classified as hazardous according to GB CLP Regulation. Label elements: GB CLP Regulation: Hazard statements:
2.1	Classification of the substance or mixture: GB CLP Regulation: The product is not classified as hazardous according to GB CLP Regulation. Label elements: GB CLP Regulation: Hazard statements: Non-applicable
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2.1	Classification of the substance or mixture: GB CLP Regulation: The product is not classified as hazardous according to GB CLP Regulation. Label elements: GB CLP Regulation: Hazard statements: Non-applicable Precautionary statements: P101: If medical advice is needed, have product container or label at hand. P102: Keep out of reach of children. P501: Dispose of the contents and/or its container using the separate collection system in your municipality.
2.1	Classification of the substance or mixture: GB CLP Regulation: The product is not classified as hazardous according to GB CLP Regulation. Label elements: GB CLP Regulation: Hazard statements: Non-applicable Precautionary statements: P101: If medical advice is needed, have product container or label at hand. P102: Keep out of reach of children. P501: Dispose of the contents and/or its container using the separate collection system in your municipality. Other hazards:
2.1	Classification of the substance or mixture: GB CLP Regulation: The product is not classified as hazardous according to GB CLP Regulation. Label elements: GB CLP Regulation: Hazard statements: Non-applicable Precautionary statements: P101: If medical advice is needed, have product container or label at hand. P102: Keep out of reach of children. P501: Dispose of the contents and/or its container using the separate collection system in your municipality.

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: 15/09/2023 Date of compilation: 24/01/2022 Version: 1 SECTION 4: FIRST AID MEASURES (continued) By eye contact: Rinse with water until the product has been eliminated. In case of problems, consult a doctor showing the SDS for the product. By ingestion/aspiration: In case of consumption in large quantities, it is recommended to seek medical assistance. 4.2 Most important symptoms and effects, both acute and delayed: Acute and delayed effects are indicated in sections 2 and 11. 4.3 Indication of any immediate medical attention and special treatment needed:

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

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

Unsuitable extinguishing media:

Non-applicable

5.2 Special hazards arising from the substance or mixture:

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

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...). Additional provisions:

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

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

For emergency responders:

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

6.2 Environmental precautions:

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

6.3 Methods and material for containment and cleaning up:

It is recommended:

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

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- General precautions for safe use



	Comply with the		tion of industrial risks with regards manually handling weights.
		leanliness and dispose of using safe met 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	
		nk during the process, washing hands aft	
		mendations to prevent environmental risk	
			vironmental risks. For more information see subsection 6.2
.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	act with food. For additional information see subsection 10.5
.3	Specific end use(s)		
			y to provide any special recommendation regarding the uses of this
SEC	TION 8: EXPOSUF	RE CONTROLS/PERSONAL PRO	TECTION
8.1	Control parameters	::	
	Substances whose of	occupational exposure limits have to be m	nonitored in the workplace:
	There are no applica	ble occupational exposure limits for the s	substances contained in the product
3.2	Exposure controls:		
	A Individual protect	ion measures, such as personal protectiv	ve equipment
	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	c Personal Protective Equipment, with the corresponding < <ukca Equipment (storage, use, cleaning, maintenance, class of he manufacturer. For more information see subsection 7.1. All needs some specification from the labour risk prevention services as ures at its disposal.</ukca
	The use of prote	ction equipment will be necessary if a mis	st forms or if the occupational exposure limits are exceeded.
	C Specific protection		
	Pictogram	PPE	Remarks
	- m		
	Mandatory hand protection	Chemical protective gloves	Replace the gloves at any sign of deterioration.
		d 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.
	protection E Body protection	ĺ	

Safety data sheet According to UK REACH



AMPure XP Beads / SPRI Beads

CTION 8. EXPOSURE CONTROLS/PERS	SONAL PROTECTION (continued)
Pictogram PPE	Remarks
Work clothing	g Replace before any evidence of deterioration. For periods of prolonged exposuto the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN I 13688:2013, EN 464:1994.
F Additional emergency measures	
It is not necessary to take additional emerg	gency measures.
Environmental exposure controls:	
	for the protection of the environment it is recommended to avoid environmental For additional information see subsection 7.1.D
CTION 9: PHYSICAL AND CHEMICAL PF	ROPERTIES
Information on basic physical and chemica	
For complete information see the product data	
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:	1032.6 kg/m ³
Relative density at 20 °C:	1.033
Dynamic viscosity at 20 °C:	Non-applicable *
Kinematic viscosity at 20 °C:	Non-applicable *
Kinematic viscosity at 40 °C:	Non-applicable *
Concentration:	Non-applicable *
pH:	Non-applicable *
Vapour density at 20 °C:	Non-applicable *
Partition coefficient n-octanol/water 20 °C:	Non-applicable *
Solubility in water at 20 °C:	Non-applicable *
Solubility properties:	Completely miscible
Decomposition temperature:	Non-applicable *
Melting point/freezing point:	Non-applicable *
Flammability:	
Flash Point:	Non Flammable (>60 °C)
Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	Non-applicable *
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 c	haracteristics:	
	Surface tensior	n at 20 °C:	Non-applicable *
	Refraction inde	x:	Non-applicable *
	*Not relevant due t	o the nature of the product, not providing inform	nation property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

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

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

10.5 Incompatible materials:

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

10.6 Hazardous decomposition products:

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

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

LD50 oral > 2000 mg/kg (rat)

Dangerous health implications:

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

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



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ECTION 11: TOX	ICOLOGICAL INFORMATION (c	continued)
- Corrosiv	icity :Based on available data, the clas ty/Irritability: Based on available data, th n the skin and the eyes (acute effect):	
- Contact	vith the skin: Based on available data, t vith the eyes: Based on available data, s (carcinogenicity, mutagenicity and tox	the classification criteria are not met
IARC: No - Mutagen	enicity: Based on available data, the cla n-applicable icity: Based on available data, the class ctive toxicity: Based on available data, t effects:	sification criteria are not met
- Skin: Ba	bry: Based on available data, the classif sed on available data, the classification get organ toxicity (STOT) - single expos	criteria are not met
Based on a	vailable data, the classification criteria a	are not met
G- Specific tar	get organ toxicity (STOT)-repeated expo	osure:
- Skin: Ba hazardous H- Aspiration h	sed on available data, the classification or this effect. For more information see	
Other informa		
Non-applicable		
	ology information on the substances	
Not available		
Acute Toxicity	Estimate (ATE mix):	
	ATE mix	Ingredient(s) of unknown toxicity
Oral Dermal	>5000 mg/kg (Calcula	· · · · · · · · · · · · · · · · · · ·
	>5000 mg/kg (Calcula	ation method) Non-applicable

SECTION 12: ECOLOGICAL INFORMATION

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

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

Non-applicable

12.1 Toxicity:

Inhalation

Not available

12.2 Persistence and degradability:

Not available

- 12.3 Bioaccumulative potential: Not available
- 12.4 Mobility in soil:

Not available

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

12.6 Other adverse effects:

Not described



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SECT	SECTION 13: DISPOSAL CONSIDERATIONS			
13.1	3.1 Waste treatment methods:			
	Code	Description	Waste class	
	16 05 09	discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08	Non dangerous	

Type of waste:

Non-applicable

Waste management (disposal and evaluation):

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

Regulations related to waste management:

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

UK legislation: The Waste Regulations 2011.

SECTION 14: TRANSPORT INFORMATION

Other information:

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

With regard to ADR 2021 and RID 2021:

withtege		
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
1 - 1 - 1		non applicable
14 2	UN proper shipping name:	Non-applicable
14.2 14 3	UN proper shipping name: Transport bazard class(es):	Non-applicable
14.2 14.3	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
14.3 14.4	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: 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 Code:	Non-applicable Non-applicable No Non-applicable see section 9 Non-applicable Non-applicable
14.3 14.4 14.5 14.6 14.7 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	Non-applicable Non-applicable No Non-applicable see section 9 Non-applicable Non-applicable



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SECTION 14:	TRANSPORT INFORMATION	N (continued)
14.3 14.4 14.5	UN number: UN proper shipping name: Transport hazard class(es): Labels: Packing group: Environmental hazards: Special precautions for user	Non-applicable Non-applicable Non-applicable Non-applicable No
14.7	Physico-Chemical properties: Transport in bulk according to Annex II of Marpol and the IBC Code:	
- Substan - Substan	ces listed in UK candidate list of su ces listed in UK REACH Authorisat ons to commercialisation and the	ions/legislation specific for the substance or mixture: ubstances of very high concern (SVHCs): Non-applicable tion List (Annex 14): Non-applicable e use of certain dangerous substances and mixtures (Annex XVII UK REACH,
	GANIG	
	provisions in terms of protecting	g people or the environment:
	provisions in terms of protecting mended to use the information inc ents in order to establish the necess	g people or the environment: cluded in this safety data sheet as a basis for conducting workplace-specific risk ssary risk prevention measures for the handling, use, storage and disposal of this

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

NANOPORE

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 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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SEC	TION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1	Product identifier: DNA / RNA CS
	Other means of identification:
	DCS, RCS, DNACS
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 non-inflammable nature, the product does not present a fire risk under normal conditions of storage, handling and use.

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...). Additional provisions:

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

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

For emergency responders:

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

6.2 Environmental precautions:

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

6.3 Methods and material for containment and cleaning up:

It is recommended:

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

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- General precautions for safe use



SEC	TION 7: HANDLIN	G AND STORAGE (continued)	
	Maintain order, o	current legislation concerning the preven cleanliness and dispose of using safe met mendations for the prevention of fires an	
	products. Consu	ed to transfer at a slow speed to avoid the It section 10 for conditions and materials mendations on general occupational hyg	
		nk during the process, washing hands aft	
		mendations to prevent environmental risk	
			vironmental risks. For more information see subsection 6.2
7.2		e storage, including any incompatibiliti	
	A Technical measure		
	Maximum time:	12 Months	
	B General conditio		
		0	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	TION 8: EXPOSU	RE CONTROLS/PERSONAL PRO	TECTION
8.1	Control parameters	S:	
	Substances whose of	occupational exposure limits have to be n	nonitored in the workplace:
	There are no applica	able occupational exposure limits for the s	substances contained in the product
8.2	Exposure controls	:	
	A Individual protec	tion measures, such as personal protectiv	ve equipment
	marking>>. For r protection,…) co information conta	more information on Personal Protective I insult the information leaflet provided by t ained herein is a recommendation which thether the company has additional meas	ic Personal Protective Equipment, with the corresponding < <ukca Equipment (storage, use, cleaning, maintenance, class of he manufacturer. For more information see subsection 7.1. All needs some specification from the labour risk prevention services as ures at its disposal.</ukca
			st forms or if the occupational exposure limits are exceeded.
	C Specific protection	on for the hands	
	Pictogram	PPE	Remarks
	m		Tomano
	Mandatory hand protection	Chemical protective gloves	Replace the gloves at any sign of deterioration.
	As the product is	nd has therefore to be checked prior to the	istance of the glove material can not be calculated in advance with e application.
	Pictogram	PPE	Remarks
	Mandatory face	Panoramic glasses against splash/projections.	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.
	protection		
	E Body protection		



4 = 100 10000

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DNA / RNA CS

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SECTION	N 8: EXPOSUR	E CONTROLS/PERSONAL PR	OTECTION (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		

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:	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 °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 infor	mation property of its hazards.



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SEC	TION 9: PHYS	SICAL AND CHEMICAL PROPER	RTIES (continued)
	Upper flammab	ility limit:	Non-applicable *
	Particle chara	cteristics:	
	Median equival	ent diameter:	Non-applicable
9.2	Other information	tion:	
	Information wi	ith 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 c	haracteristics:	
	Surface tensior	n at 20 °C:	Non-applicable *
	Refraction inde	х:	Non-applicable *
	*Not relevant due t	to the nature of the product, not providing inform	nation property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

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

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

10.5 Incompatible materials:

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

10.6 Hazardous decomposition products:

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

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

LD50 oral > 2000 mg/kg (rat)

Dangerous health implications:

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

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



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CTION 11: TOX	CICOLOGICAL INFORMATION (C	ontinued)	
 Corrosivi 	kicity : Based on available data, the cla ty/Irritability: Based on available data, t h the skin and the eyes (acute effect):		
- Contact v	with the skin: Based on available data, with the eyes: Based on available data, s (carcinogenicity, mutagenicity and tox	the classification criteria are r	
IARC: No - Mutagen	enicity: Based on available data, the cl n-applicable icity: Based on available data, the class ctive toxicity: Based on available data, effects:	ification criteria are not met	
- Skin: Bas	ory: Based on available data, the classi sed on available data, the classification get organ toxicity (STOT) - single expos	criteria are not met	
Based on a	vailable data, the classification criteria	are not met	
G- Specific tar	get organ toxicity (STOT)-repeated exp	osure:	
- Skin: Bas	sed on available data, the classification for this effect. For more information see	criteria are not met, as it does	data, the classification criteria are not met s not contain substances classified as
Based on a	vailable data, the classification criteria	are not met	
Other information	tion:		
Non-applicable			
Specific toxico	ology information on the substances	:	
Not available			
Acute Toxicity	v Estimate (ATE mix):		
	ATE mix		Ingredient(s) of unknown toxicity
Oral	>5000 mg/kg (Calcul	ation method)	Non-applicable

	ATEINIX	
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:

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



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

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.

Version: 1

SECTION 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 Details of the supplier of the safety data sheet: 1.3 Oxford Nanopore Technologies Gosling Building, Edmund Halley Road, Oxford Science Park OX4 4DQ Oxford - Oxon - England Phone: +44 (0)845 034 7900 - Fax: +44 (0)845 034 7901 http://www.nanoporetech.com/ 1.4 Emergency telephone number: +44 (0)845 034 7900 (9am-5:30pm GMT) **SECTION 2: HAZARDS IDENTIFICATION** Classification of the substance or mixture: 2.1 **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. Supplementary information: EUH210: Safety data sheet available on request. 2.3 Other hazards:

Product fails to meet PBT/vPvB criteria

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Date of compilation: 02/06/2023

3.1 Substance:

NANOPORE

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Non-applicable

3.2 Mixture:

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

Components:

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

	Identification	Chemical name/Classification	Concentration			
CAS: 60-00-4	edetic acid	4 - 140.0%				
	Eye Irrit. 2: H319 - Warning	1 - <10 %				
To ob	To obtain more information on the hazards of the substances consult sections 11, 12 and 16					

lo 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:

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SECTION 4: FIRST AID MEASURES (continued)

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

NANOPORE

This product does not contain substances classified as hazardous for inhalation, however, in case of symptoms of intoxication remove the person affected from the exposure area and provide with fresh air. Seek medical attention if the symptoms get worse or persist.

By skin contact:

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

By eve contact:

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

By ingestion/aspiration:

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

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

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

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

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

Product is non-flammable under normal conditions of storage, handling and use. In the case of combustion as a result of improper handling, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

Unsuitable extinguishing media:

Non-applicable

5.2 Special hazards arising from the substance or mixture:

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

5.3 Advice for firefighters:

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

Additional provisions:

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: 6.1

For non-emergency personnel:

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

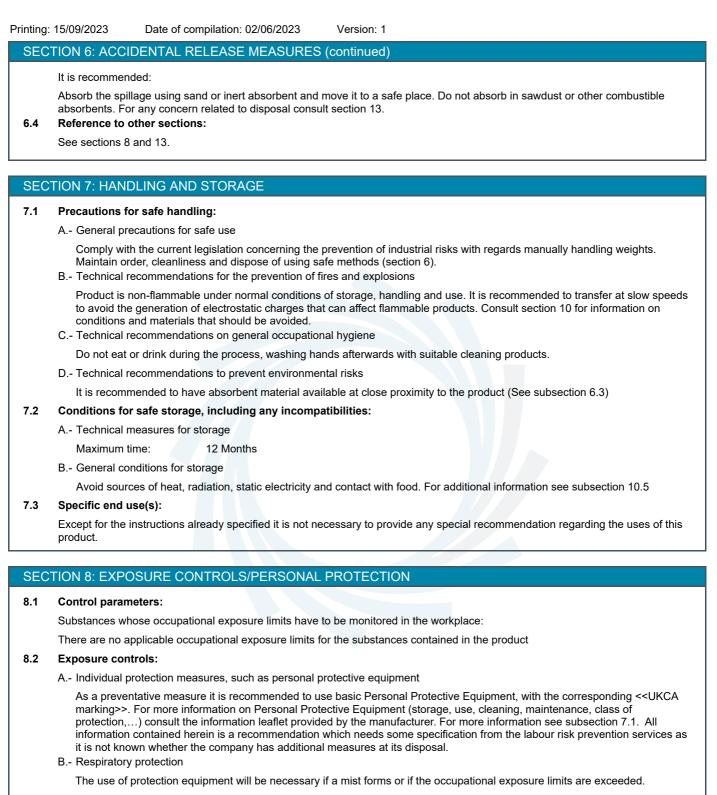
For emergency responders:

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

6.2 **Environmental precautions:**

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

6.3 Methods and material for containment and cleaning up:



C.- Specific protection for the hands

NANOPORE

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

Safety data sheet According to UK REACH

EDTA

CTION 8: EXPC	SURE CON	TROLS/PERSONAL PRC	TECTION (continued)	
D Eye and fac)	
-		PPE		Pomorko
Pictogra		FFE		Remarks
Mandatory f	ace	ic glasses against splash/projections.		according to the manufacturer's instruction is a risk of splashing.
E Body protec	tion			
Pictogra	m	PPE		Remarks
		Work clothing	to the product for professional/in accordance with the regulations in El	erioration. For periods of prolonged expos ndustrial users CE III is recommended, in N ISO 6529:2013, EN ISO 6530:2005, EN)13, EN 464:1994.
F Additional e	mergency mea	asures		
Emerger	icy measure	Standards	Emergency measure	Standards
Emerge	ncy shower	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:20	011 Eyewash stations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
Environmental		ntrole:		
	•		on of the environment it is recon	nmended to avoid environmental
			information see subsection 7.1.	
Information or	ı basic physic	CHEMICAL PROPERTIES		
Information or For complete in Appearance:	I basic physic formation see	al and chemical properties: the product datasheet.		
Information or For complete in Appearance: Physical state a	I basic physic formation see	al and chemical properties: the product datasheet. Liqu	iid	
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Information or For complete in Appearance: Physical state a Appearance: Colour: Odour:	n basic physic formation see at 20 °C:	al and chemical properties: the product datasheet. Liqu Coli Not Not	uid orless available available	
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Information or For complete in Appearance: Physical state a Appearance: Colour: Odour: Odour threshold Volatility: Boiling point at Vapour pressur	t basic physic formation see at 20 °C: d: d: atmospheric p e at 20 °C:	al and chemical properties: the product datasheet. Liqu Colu Not Not Nor ressure: 100 235	uid orless available available n-applicable * °C 0 Pa	
Information or For complete in Appearance: Physical state a Appearance: Colour: Odour: Odour: Odour threshold Volatility: Boiling point at Vapour pressur	a basic physic formation see at 20 °C: d: atmospheric p e at 20 °C: e at 50 °C:	al and chemical properties: the product datasheet. Liqu Colu Not Not ressure: 100 235 123	uid orless available available h-applicable * °C 0 Pa 81.01 Pa (12.38 kPa)	
Information or For complete in Appearance: Physical state a Appearance: Colour: Odour: Odour threshold Volatility: Boiling point at Vapour pressur Vapour pressur Evaporation rat	a basic physic formation see at 20 °C: d: atmospheric p e at 20 °C: e at 50 °C: e at 50 °C: e at 20 °C:	al and chemical properties: the product datasheet. Liqu Colu Not Not ressure: 100 235 123	uid orless available available n-applicable * °C 0 Pa	
Information or For complete in Appearance: Physical state a Appearance: Colour: Odour: Odour threshold Volatility: Boiling point at Vapour pressur Vapour pressur Evaporation rat Product descr	a basic physic formation see at 20 °C: d: atmospheric p e at 20 °C: e at 20 °C: e at 20 °C: e at 20 °C: iption:	al and chemical properties: the product datasheet. Liqu Colu Not Not Nor ressure: 100 235 123 Nor	uid orless available available n-applicable * °C 0 Pa 81.01 Pa (12.38 kPa) n-applicable *	
Information or For complete in Appearance: Physical state a Appearance: Colour: Odour: Odour threshold Volatility: Boiling point at Vapour pressur Vapour pressur Evaporation rat	a basic physic formation see at 20 °C: d: atmospheric p e at 20 °C: e at 50 °C: e at 50 °C: e at 20 °C: iption: C:	al and chemical properties: the product datasheet. Liqu Colu Not Not Nor ressure: 100 235 123 Nor	uid orless available available h-applicable * °C 0 Pa 81.01 Pa (12.38 kPa) h-applicable * 7.1 kg/m ³	
Information or For complete in Appearance: Physical state a Appearance: Colour: Odour: Odour threshold Volatility: Boiling point at Vapour pressur Evaporation rat Product descr Density at 20 °C	a basic physic formation see at 20 °C: d: atmospheric p e at 20 °C: e at 20 °C: e at 20 °C: iption: C: y at 20 °C:	al and chemical properties: the product datasheet. Liqu Colu Not Not Nor ressure: 100 235 123 Nor 101	uid orless available avail	
Information or For complete in Appearance: Physical state a Appearance: Colour: Odour: Odour threshold Volatility: Boiling point at Vapour pressur Vapour pressur Evaporation rat Product descr Density at 20 °C Relative density	a basic physic formation see at 20 °C: d: atmospheric p e at 20 °C: e at 20 °C: e at 20 °C: iption: C: y at 20 °C: sity at 20 °C:	al and chemical properties: the product datasheet. Liqu Colu Not Not Nor ressure: 100 235 123 Nor 101 1.0 ⁷ 1.2 ⁷	uid orless available avail	
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Information or For complete in Appearance: Physical state a Appearance: Colour: Odour: Odour threshold Volatility: Boiling point at Vapour pressur Vapour pressur Evaporation rat Product descr Density at 20 °C Relative density Dynamic viscos Kinematic viscos	a basic physic formation see at 20 °C: d: atmospheric p e at 20 °C: e at 50 °C: e at 20 °C: iption: C: y at 20 °C: sity at 20 °C: sity at 20 °C:	al and chemical properties: the product datasheet. Liqu Colu Not Not Nor ressure: 100 235 123 Nor 101 1.0 ⁻ 1.15 Nor	uid orless available avail	
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- CONTINUED ON NEXT PAGE -

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SEC	TION 9: PHYSICAL AND CHEMICAL PROPE	RTIES (continued)
	Solubility in water at 20 °C:	Non-applicable *
	Solubility properties:	Completely miscible
	Decomposition temperature:	Non-applicable *
	Melting point/freezing point:	Non-applicable *
	Flammability:	
	Flash Point:	Non Flammable (>60 °C)
	Flammability (solid, gas):	Non-applicable *
	Autoignition temperature:	Non-applicable *
	Lower flammability limit:	Non-applicable *
	Upper flammability limit:	Non-applicable *
	Particle characteristics:	
	Median equivalent diameter:	Non-applicable
9.2	Other information:	
	Information with regard to physical hazard classe	s:
	Explosive properties:	Non-applicable *
	Oxidising properties:	Non-applicable *
	Corrosive to metals:	Non-applicable *
	Heat of combustion:	Non-applicable *
	Aerosols-total percentage (by mass) of flammable components:	Non-applicable *
	Other safety characteristics:	
	Surface tension at 20 °C:	Non-applicable *
	Refraction index:	Non-applicable *
	*Not relevant due to the nature of the 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:

	emperature Sunlight Humidity
Not applicable Not applicable Not ap	licable Not applicable Not applicable

10.5 Incompatible materials:

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

10.6 Hazardous decomposition products:

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

SECTION 11: TOXICOLOGICAL INFORMATION

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TION 11: TOXICOLOGICA	L INFORMATION (cor	ntinued)					
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 rep	n case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, dverse effects on health may result, depending on the means of exposure: Ingestion (acute effect):						
 Acute toxicity : Based of as hazardous for consumping of consumping of consumping of consistive services and the construction of the	ion. For more information sed on available data, the	see section 3 classification crite	ria are not n				
 Acute toxicity : Based or as hazardous for inhalation Corrosivity/Irritability: Baclassified as hazardous for Contact with the skin and the skin and	. For more information se sed on available data, the this effect. For more infor	e section 3. classification crite	ria are not n				
 Contact with the skin: Ba classified as hazardous for Contact with the eyes: B classified as hazardous for D- CMR effects (carcinogenicial 	ased on available data, the skin contact. For more inf ased on available data, the this effect. For more infor	formation see secti le classification crit mation see section	on 3. eria are not i 3.				
 Carcinogenicity: Based of as hazardous for the effect IARC: Non-applicable Mutagenicity: Based on hazardous for this effect. Find Reproductive toxicity: Based on classified as hazardous for E- Sensitizing effects: 	s mentioned. For more inf available data, the classifi or more information see so ased on available data, the	ormation see secti cation criteria are r ection 3. e classification crite	on 3. not met, as i eria are not r	t does	not contain substanc	es classified as	
 Respiratory: Based on a hazardous with sensitising Skin: Based on available hazardous for this effect. F F- Specific target organ toxicit Based on available data, th 	effects. For more informal e data, the classification cr or more information see s y (STOT) - single exposu	tion see section 3. riteria are not met, ection 3. re:	as it does no	ot cont	tain substances class	ified as	
this effect. For more inform G- Specific target organ toxicit	ation see section 3.		is not contai	n subs			
 Specific target organ tox it does not contain substan Skin: Based on available hazardous for this effect. For H- Aspiration hazard: 	ces classified as hazardou data, the classification cr	us for this effect. For this effect, For the second s	or more info	rmatio	n see section 3.		
Based on available data, th this effect. For more inform Other information: Non-applicable		e not met, as it doe	s not contai	n subs	stances classified as h	nazardous for	
Specific toxicology informati	on on the substances.						
adatia agid	Identification		LD50 orel	Acu	ite toxicity	Genus	
edetic acid CAS: 60-00-4			LD50 oral LD50 dermal		2581 mg/kg Non-applicable	Rat	
			LC50 inhalatio	on	Non-applicable		
Acute Toxicity Estimate (ATE	mix):						
	ATE mix				Ingredient(c) of unknow	n toxicity	
	ATEIIIX				Ingredient(s) of unknow	In toxicity	

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SEC	TION 11: TOXICOLOGICAL IN	FORMATION (cc	ontinued)		
	Oral	>5000 mg/kg (Calculat	ion method)	Non-applicable	
	Dermal	>5000 mg/kg (Calculat	ion method)	Non-applicable	
	Inhalation	>20 mg/L (4 h) (Calcul	ation method)	Non-applicable	

SECTION 12: ECOLOGICAL INFORMATION

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

12.1 Toxicity:

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		25 mg/L	Daphnia magna	Crustacean

12.2 Persistence and degradability:

Not available

12.3 Bioaccumulative potential:

Substance-specific information:

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

12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
edetic acid	Кос	1046	Henry	0E+0 Pa⋅m³/mol
CAS: 60-00-4	Conclusion	Low	Dry soil	No
	Surface tension	Non-applicable	Moist soil	No
Results of PBT and vPvB assessment:				

Product fails to meet PBT/vPvB criteria

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

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

Type of waste:

Non-applicable

Waste management (disposal and evaluation):

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

Regulations related to waste management:

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

Safety data sheet According to UK REACH

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SECTION 13: DISPOSAL CONSIDERATIONS (continued)

UK legislation: The Waste Regulations 2011.

SECTION 14: TRANSPORT INFORMATION

Other information:

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

With regard to ADR 2021 and RID 2021:

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

14.7 Transport in bulk according to Non-applicable Annex II of Marpol and the IBC Code:

SECTION 15: REGULATORY INFORMATION

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

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SECTION 15: REGULATORY INFORMATION (continued)

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

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

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

Non-applicable

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Specific provisions in terms of protecting people or the environment:

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

Other legislation:

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

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

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

Texts of the legislative phrases mentioned in section 3:

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

GB CLP Regulation:

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

Classification procedure:

Non-applicable

Advice related to training:

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

Principal bibliographical sources:

http://echa.europa.eu http://eur-lex.europa.eu

Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

- ICAO: International Civil Aviation Organisation
- COD: Chemical Oxygen Demand
- BOD5: 5day biochemical oxygen demand

BCF: Bioconcentration factor

LD50: Lethal Dose 50

LC50: Lethal Concentration 50

EC50: Effective concentration 50 LogPOW: Octanolwater partition coefficient

Koc: Partition coefficient of organic carbon

UFI: unique formula identifier

IARC: International Agency for Research on Cancer

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at UK, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awarenees or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.



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SEC	TION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING					
1.1	Product identifier: Elution Buffer					
	Other means of identification:					
VEB, EB, ELB, VELB						
1.2	1.2 Relevant identified uses of the substance or mixture and uses advised against:					
Relevant uses: Research use only						
Uses advised against: All uses not specified in this section or in section 7.3						
1.3	Details of the supplier of the safety data sheet:					
Oxford Nanopore Technologies Gosling Building, Edmund Halley Road, Oxford Science Park OX4 4DQ Oxford - Oxon - England Phone: +44 (0)845 034 7900 - Fax: +44 (0)845 034 7901 http://www.nanoporetech.com/						
1.4	Emergency telephone number: +44 (0)845 034 7900 (9am-5:30pm GMT)					
SEC	TION 2: HAZARDS IDENTIFICATION					

2.1 Classification of the substance or mixture:

GB CLP Regulation:

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

2.2 Label elements:

GB CLP Regulation:

Hazard statements:

Non-applicable

Precautionary statements:

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

P102: Keep out of reach of children.

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

2.3 Other hazards:

Product fails to meet PBT/vPvB criteria

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Non-applicable

3.2 Mixture:

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

Components:

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

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

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

By inhalation:

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

By skin contact:

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



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SECTION 4: FIRST AID MEASURES (continued)

By eye contact:

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

By ingestion/aspiration:

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

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

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

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

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

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

Unsuitable extinguishing media:

Non-applicable

5.2 Special hazards arising from the substance or mixture:

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

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...). Additional provisions:

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

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

For emergency responders:

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

6.2 Environmental precautions:

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

6.3 Methods and material for containment and cleaning up:

It is recommended:

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

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- General precautions for safe use



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3.1 Co Su Th 3.2 Ex	ontrol parameters: ubstances whose of here are no applicat xposure controls: - Individual protecti	ccupational exposure limits have to be n ble occupational exposure limits for the s	nonitored in the workplace: substances contained in the product		
Su Th 3.2 Ex	ubstances whose or nere are no applicat xposure controls: - Individual protecti	ccupational exposure limits have to be n ble occupational exposure limits for the s	substances contained in the product		
Th 3.2 Ex	nere are no applicat xposure controls: - Individual protecti	ole occupational exposure limits for the s	substances contained in the product		
3.2 Ex	cposure controls: - Individual protecti				
	- Individual protecti	on measures, such as personal protectiv	ve equipment		
A		on measures, such as personal protectiv	ve equipment		
	As a preventative		i o odalpinoni		
	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>				
В	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 	n for the hands			
	Pictogram	PPE	Remarks		
	Mandatory hand	Chemical protective gloves	Replace the gloves at any sign of deterioration.		
	As the product is	a mixture of several substances, the res	sistance of the glove material can not be calculated in advance with		
D.·		has therefore to be checked prior to the			
	Pictogram	PPE	Remarks		
	Mandatory face	Panoramic glasses against splash/projections.	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.		
E	- Body protection	I	1		
	,,				



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

It is not necessary to take additional emergency measures.

Environmental exposure controls:

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

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:LiquidAppearance:ColorlessColour:Not availableOdour:Not availableOdour:Not availableOdour:Not availableOdour:Non-applicable *Volatility:100 °CBoiling point at atmospheric pressure:100 °CVapour pressure at 20 °C:2350 PaVapour pressure at 50 °C:12381.01 Pa (12.38 kPa)Evaporation rate at 20 °C:Non-applicable *Product description:Non-applicable *Density at 20 °C:1.034Ponatic viscosity at 20 °C:Non-applicable *Concentration:Non-applicable *Concentration:Non-applicable *Off:Non-applicable *Vapour density at 20 °C:Non-applicable *Solubility in water at 20 °C:Non-applicable *Solubility properties:Completely miscibleDecomposition temperature:Non-applicable *Partition coefficient n-octanol/water 20 °C:Non-applicable *Solubility invater at 20 °C:Non-applicable *Solubility invater at 20 °C:Non-applicable *Solubility invater at 20 °C: <t< th=""><th></th><th></th></t<>		
Appearance:ColorlessColour:Not availableOdour:Not availableOdour:Not availableOdour threshold:Non-applicable *Volatility:100 °CBoiling point at atmospheric pressure:100 °CVapour pressure at 20 °C:2350 PaVapour pressure at 20 °C:12381.01 Pa (12.38 kPa)Evaporation rate at 20 °C:Non-applicable *Product description:1034 kg/m³Palative density at 20 °C:1.034Oynamic viscosity at 20 °C:Non-applicable *Kinematic viscosity at 20 °C:Non-applicable *Concentration:Non-applicable *Vapour density at 20 °C:Non-applicable *Concentration:Non-applicable *Vapour density at 20 °C:Non-applicable *Solubility in water at 20 °C:Non-applicable *Vapour density at 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-octanol/water 20 °C:Non-applicable *Solubility in water at 20 °C:Non-applicable *Partition coefficient n-octanol/water 20 °C:Non-applicable *Solubility in mater at 20 °C: <t< td=""><td>Appearance:</td><td></td></t<>	Appearance:	
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Dodour:Not availableDodour threshold:Non-applicable *Volatility:100 °CBoiling point at atmospheric pressure:100 °CVapour pressure at 20 °C:2350 PaVapour pressure at 50 °C:12381.01 Pa (12.38 kPa)Evaporation rate at 20 °C:Non-applicable *Product description:1034 kg/m³Evaporation rate at 20 °C:1034 kg/m³Consity at 20 °C:1034 kg/m³Relative density at 20 °C:Non-applicable *Opnamic viscosity at 20 °C:Non-applicable *Concentration:Non-applicable *Concentration:Non-applicable *OH:Non-applicable *Vapour density at 20 °C:Non-applicable *Concentration:Non-applicable *OH:Non-applicable *Solubility in water at 20 °C:Non-applicable *Solubility in water at 20 °C:Non-applicable *Solubility properties:Completely miscibleDecomposition temperature:Non-applicable *Welting point/freezing point:Non-applicable *Flammability:Non-applicable *Flammability (solid, gas):Non-applicable *Autoignition temperature:Non-applicable *Autoigni	Appearance:	Colorless
Odour threshold:Non-applicable *Volatility:100 °CBoiling point at atmospheric pressure:100 °CVapour pressure at 20 °C:2350 PaVapour pressure at 50 °C:12381.01 Pa (12.38 kPa)Evaporation rate at 20 °C:Non-applicable *Product description:1034 kg/m³Density at 20 °C:1034 kg/m³Relative density at 20 °C:Non-applicable *Opnamic viscosity at 20 °C:Non-applicable *Concentration:Non-applicable *Concentration:Non-applicable *Vapour density at 20 °C:Non-applicable *Concentration:Non-applicable *Obli:Non-applicable *Vapour density at 20 °C:Non-applicable *Concentration:Non-applicable *Obli:Non-applicable *Solubility in water at 20 °C:Non-applicable *Solubility in water at 20 °C:Non-applicable *Solubility properties:Completely miscibleDecomposition temperature:Non-applicable *Velting point/freezing point:Non-applicable *FlammabilitySolubility (solid, gas):Non-applicable *Autoignition temperature:Non-applicable *Autoignition temperature: <td>Colour:</td> <td>Not available</td>	Colour:	Not available
Volatility:Boiling point at atmospheric pressure:100 °CVapour pressure at 20 °C:2350 PaVapour pressure at 50 °C:12381.01 Pa (12.38 kPa)Evaporation rate at 20 °C:Non-applicable *Product description:1034 kg/m³Density at 20 °C:1034 kg/m³Relative density at 20 °C:1.034Oynamic viscosity at 20 °C:Non-applicable *Concentration:Non-applicable *Concentration:Non-applicable *Out description:Non-applicable *Concentration:Non-applicable *Concentration:Non-applicable *Optime:Non-applicable *Solubility in water at 20 °C:Non-applicable *Solubility in water at 20 °C:Non-applicable *Solubility in water at 20 °C:Non-applicable *Solubility properties:Completely miscibleDecomposition temperature:Non-applicable *Velting point/freezing point:Non-applicable *Flanmability:Non-applicable *Tash Point:Non Flammable (>60 °C)Flanmability (solid, gas):Non-applicable *Autoignition temperature:Non-applicable *<	Odour:	Not available
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Partition coefficient n-octanol/water 20 °C:Non-applicable *Solubility in water at 20 °C:Non-applicable *Solubility properties:Completely miscibleDecomposition temperature:Non-applicable *Melting point/freezing point:Non-applicable *Flammability:Flammability:Flash Point:Non-applicable *Flammability (solid, gas):Non-applicable *Autoignition temperature:Non-applicable *Lower flammability limit:Non-applicable *	pH:	Non-applicable *
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Decomposition temperature: Non-applicable * Melting point/freezing point: Non-applicable * Flammability: State of the sta	Solubility in water at 20 °C:	Non-applicable *
Melting point/freezing point: Non-applicable * Flammability:	Solubility properties:	Completely miscible
Flammability: Flash Point: Non Flammable (>60 °C) Flammability (solid, gas): Non-applicable * Autoignition temperature: Non-applicable * Lower flammability limit: Non-applicable *	Decomposition temperature:	Non-applicable *
Flash Point: Non Flammable (>60 °C) Flammability (solid, gas): Non-applicable * Autoignition temperature: Non-applicable * Lower flammability limit: Non-applicable *	Melting point/freezing point:	Non-applicable *
Flammability (solid, gas): Non-applicable * Autoignition temperature: Non-applicable * Lower flammability limit: Non-applicable *	Flammability:	
Autoignition temperature: Non-applicable * _ower flammability limit: Non-applicable *	Flash Point:	Non Flammable (>60 °C)
Lower flammability limit: Non-applicable *	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.	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: PHYSI	CAL AND CHEMICAL PROPER	RTIES (continued)
	Upper flammability limit:		Non-applicable *
	Particle charact	teristics:	
	Median equivale	nt diameter:	Non-applicable
9.2 Other information:		on:	
	Information with regard to physical hazard classes		s:
	Explosive properties:		Non-applicable *
	Oxidising proper	ties:	Non-applicable *
	Corrosive to met	als:	Non-applicable *
	Heat of combustion:		Non-applicable *
	Aerosols-total percentage (by mass) of flammable components:		Non-applicable *
	Other safety characteristics:		
	Surface tension at 20 °C:		Non-applicable *
	Refraction index	:	Non-applicable *
	*Not relevant due to	the nature of the product, not providing inform	nation property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

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

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

10.5 Incompatible materials:

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

10.6 Hazardous decomposition products:

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

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

LD50 oral > 2000 mg/kg (rat)

Dangerous health implications:

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

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



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ECTION 11: TOX	ICOLOGICAL INFORMAT	ION (continued)	
- Corrosivi	icity :Based on available data ty/Irritability: Based on availabl n the skin and the eyes (acute	e data, the classification crit	
- Contact v	vith the skin: Based on availab vith the eyes: Based on availab s (carcinogenicity, mutagenicity	ole data, the classification c	iteria are not met
IARC: No - Mutageni	enicity: Based on available dat n-applicable icity: Based on available data, ctive toxicity: Based on availab effects:	the classification criteria are	not met
- Skin: Bas	ory: Based on available data, th sed on available data, the class get organ toxicity (STOT) - sing	ification criteria are not met	
Based on a	vailable data, the classification	criteria are not met	
G- Specific tar	get organ toxicity (STOT)-repe	ated exposure:	
- Skin: Bas	sed on available data, the class or this effect. For more informa	ification criteria are not met	available data, the classification criteria are not met , as it does not contain substances classified as
Based on a	vailable data, the classification	criteria are not met	
Other informat	tion:		
Non-applicable			
Specific toxico	ology information on the sub	stances:	
Not available			
Acute Toxicitv	Estimate (ATE mix):		
	ATE m	x	Ingredient(s) of unknown toxicity
Oral	>5000 mg/	kg (Calculation method)	Non-applicable

SECTION 12: ECOLOGICAL INFORMATION

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

>5000 mg/kg (Calculation method)

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

Non-applicable

12.1 Toxicity:

Dermal

Inhalation

Not available

12.2 Persistence and degradability:

Not available

- 12.3 Bioaccumulative potential: Not available
- 12.4 Mobility in soil:

Not available

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

12.6 Other adverse effects:

Not described



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SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

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

Type of waste:

Non-applicable

Waste management (disposal and evaluation):

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

Regulations related to waste management:

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

UK legislation: The Waste Regulations 2011.

SECTION 14: TRANSPORT INFORMATION

Other information:

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

With regard to ADR 2021 and RID 2021:

mannoge		
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
	UN proper shipping name: Transport hazard class(es): Labels:	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 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: 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:	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	Non-applicable Non-applicable No Non-applicable see section 9 Non-applicable Non-applicable
14.3 14.4 14.5 14.6	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group: Transport in bulk according to Annex II of Marpol and the IBC	Non-applicable Non-applicable No Non-applicable see section 9 Non-applicable Non-applicable
14.3 14.4 14.5 14.6 14.7 Transpor	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group: Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicable Non-applicable No Non-applicable see section 9 Non-applicable Non-applicable



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

SECTION 15: REGULATORY INFORMATION

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

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

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

Non-applicable

Specific provisions in terms of protecting people or the environment:

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

Other legislation:

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

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

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

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

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

Texts of the legislative phrases mentioned in section 3:

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

GB CLP Regulation:

Non-applicable

Classification procedure:

Non-applicable

Advice related to training:

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

Principal bibliographical sources:

http://echa.europa.eu

http://eur-lex.europa.eu

Abbreviations and acronyms:



Safety data sheet According to UK REACH

Elution Buffer

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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	1.1 Product identifier: Flow Cell Flush	
	Other means of identification:	
	FCF	
1.2	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	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	1.4 Emergency telephone number: +44 (0)845 034 7900 (9am-5:30pm GMT)	
SEC	SECTION 2: HAZARDS IDENTIFICATION	
2.1	2.1 Classification of the substance or mixture:	
	GB CLP Regulation:	
	The product is not classified as hazardous according to GB CLP Regulation.	

2.2 Label elements:

GB CLP Regulation:

Hazard statements:

Non-applicable

Precautionary statements:

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

P102: Keep out of reach of children.

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

2.3 Other hazards:

Product fails to meet PBT/vPvB criteria

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Non-applicable

3.2 Mixture:

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

Components:

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

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

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

By inhalation:

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

By skin contact:

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



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SECTION 4: FIRST AID MEASURES (continued)

By eye contact:

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

By ingestion/aspiration:

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

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

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

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

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

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

Unsuitable extinguishing media:

Non-applicable

5.2 Special hazards arising from the substance or mixture:

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

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...). Additional provisions:

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

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

For emergency responders:

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

6.2 Environmental precautions:

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

6.3 Methods and material for containment and cleaning up:

It is recommended:

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

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- General precautions for safe use



nting:	: 15/09/2023 Da	ate of compilation: 22/06/2022 Ver	sion: 1	
SEC	TION 7: HANDLIN	G AND STORAGE (continued)		
	Maintain order, o	current legislation concerning the preven cleanliness and dispose of using safe met mendations for the prevention of fires an		
	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			
	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		e storage, including any incompatibiliti		
1.2	A Technical measure			
	Maximum time:	12 Months		
	B General condition			
		C	test with food. For additional information and subsection 10.5	
7.3			tact with food. For additional information see subsection 10.5	
7.3	Specific end use(s Except for the instru product.		ry to provide any special recommendation regarding the uses of this	
SEC	TION 8: EXPOSU	RE CONTROLS/PERSONAL PRO	TECTION	
8.1	Control parameters			
		occupational exposure limits have to be n		
		able occupational exposure limits for the s	substances contained in the product	
8.2	Exposure controls			
	As a preventativ marking>>. For protection,) co information cont	more information on Personal Protective I onsult the information leaflet provided by t ained herein is a recommendation which whether 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 prote	ction equipment will be necessary if a mis	st forms or if the occupational exposure limits are exceeded.	
	C Specific protection			
	Pictogram	PPE	Remarks	
	Mandatory hand protection	Chemical protective gloves	Replace the gloves at any sign of deterioration.	
	As the product is	nd has therefore to be checked prior to the	istance of the glove material can not be calculated in advance with e application.	
	Pictogram	PPE	Remarks	
	Mandatory face protection	Panoramic glasses against splash/projections.	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.	
			1	
	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	L Additional emerge	ency measures	1	

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 ºC:	Non-applicable *
Kinematic viscosity at 20 °C:	Non-applicable *
Kinematic viscosity at 40 °C:	Non-applicable *
Concentration:	Non-applicable *
pH:	Non-applicable *
Vapour density at 20 °C:	Non-applicable *
Partition coefficient n-octanol/water 20 °C:	Non-applicable *
Solubility in water at 20 °C:	Non-applicable *
Solubility properties:	Non-applicable *
Decomposition temperature:	Non-applicable *
Melting point/freezing point:	Non-applicable *
Flammability:	
Flash Point:	Non Flammable (>60 °C)
Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	Non-applicable *
Lower flammability limit:	Non-applicable *
*Not relevant due to the nature of the product, not providing inform	nation property of its hazards.



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SEC	TION 9: PHYSICAL AND CH	HEMICAL PROPER	RTIES (continued)
	Upper flammability limit:		Non-applicable *
	Particle characteristics:		
	Median equivalent diameter:		Non-applicable
9.2	Other information:		
	Information with regard to phy	ysical hazard classes	s:
	Explosive properties:		Non-applicable *
	Oxidising properties:		Non-applicable *
	Corrosive to metals:		Non-applicable *
	Heat of combustion:		Non-applicable *
	Aerosols-total percentage (by m components:	nass) of flammable	Non-applicable *
	Other safety characteristics:		
	Surface tension at 20 °C:		Non-applicable *
	Refraction index:		Non-applicable *
	*Not relevant due to the nature of the p	product, not providing inform	nation property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

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

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

10.5 Incompatible materials:

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

10.6 Hazardous decomposition products:

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

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

LD50 oral > 2000 mg/kg (rat)

Dangerous health implications:

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

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



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CTION 11: TO	XICOLOGICAL INFORMATION (c	continued)	
- Corrosi	oxicity :Based on available data, the cla vity/Irritability: Based on available data, t th the skin and the eyes (acute effect):		met
- Contact	with the skin: Based on available data, with the eyes: Based on available data, sts (carcinogenicity, mutagenicity and to	, the classification criteria are not	
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	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	Based on available data, the classification criteria are not met		
G- Specific ta	G- Specific target organ toxicity (STOT)-repeated exposure:		
- Skin: Ba hazardous H- Aspiration	 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			
	cology information on the substances	s:	
Not available		-	
Acute Toxicit	y 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
			The second se

SECTION 12: ECOLOGICAL INFORMATION

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

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

Non-applicable

12.1 Toxicity:

Not available

Inhalation

12.2 Persistence and degradability:

Not available

- 12.3 Bioaccumulative potential: Not available
- 12.4 Mobility in soil:

Not available

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

12.6 Other adverse effects:

Not described



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SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

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

Type of waste:

Non-applicable

Waste management (disposal and evaluation):

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

Regulations related to waste management:

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

UK legislation: The Waste Regulations 2011.

SECTION 14: TRANSPORT INFORMATION

Other information:

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

With regard to ADR 2021 and RID 2021:

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



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

SECTION 15: REGULATORY INFORMATION

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

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

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

Non-applicable

Specific provisions in terms of protecting people or the environment:

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

Other legislation:

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

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

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

EH40/2005 Workplace exposure limits.

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 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 -

Version: 1



Flowcell (Flush) Tether / Priming Tether

1.1	TION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING Product identifier: Flowcell (Flush) Tether / Priming Tether Other means of identification
	Other means of identification: FLT, PT, FT, FCT
1.2	Relevant identified uses of the substance or mixture and uses advised against: Relevant uses: Research use only Uses advised against: All uses not specified in this section or in section 7.3
1.3 1.4	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)
SECT	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.
2.1 2.2	GB CLP Regulation:
	GB CLP Regulation: The product is not classified as hazardous according to GB CLP Regulation. Label elements: GB CLP Regulation: Hazard statements:

3.1 Substance:

Substance: Non-applicable

3.2 Mixture:

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

Components:

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

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

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

By inhalation:

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

By skin contact:

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



Flowcell (Flush) Tether / Priming Tether

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

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

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

Unsuitable extinguishing media:

Non-applicable

5.2 Special hazards arising from the substance or mixture:

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

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...). Additional provisions:

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

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

For emergency responders:

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

6.2 Environmental precautions:

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

6.3 Methods and material for containment and cleaning up:

It is recommended:

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

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- General precautions for safe use



Flowcell (Flush) Tether / Priming Tether

SEC	TION 7: HANDLIN	G AND STORAGE (continued)			
	Maintain order, c	current legislation concerning the prever leanliness and dispose of using safe me mendations for the prevention of fires an			
	products. Consul	It section 10 for conditions and materials			
		mendations on general occupational hyg	terwards 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		e storage, including any incompatibilit			
.2	A Technical measu		163.		
	Maximum time:	12 Months			
	B General condition				
		3	toot with food. For additional information and subcostion 10.5		
			tact with food. For additional information see subsection 10.5		
7.3	Specific end use(s)				
	Except for the instruction product.	ctions already specified it is not necessal	ry to provide any special recommendation regarding the uses of this		
SEC	TION 8: EXPOSUR	RE CONTROLS/PERSONAL PRO	TECTION		
3.1	Control parameters				
	Substances whose c	occupational exposure limits have to be n	nonitored in the workplace:		
	There are no applica	able occupational exposure limits for the	substances contained in the product		
8.2	Exposure controls:				
	A Individual protect	tion measures, such as personal protecti	ve equipment		
	As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding < <ukca marking="">>. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal. B Respiratory protection</ukca>				
	The use of 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	Chemical protective gloves	Replace the gloves at any sign of deterioration.		
	As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application. D Eye and face protection				
	Pictogram	PPE	Remarks		
	Mandatory face	Panoramic glasses against splash/projections.	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.		
	protection	1	1		
	E Body protection				



Flowcell (Flush) Tether / Priming Tether

CTION 8: EXPOSURE CONTROLS/PERS	SONAL PROTECTION (continued)
Pictogram PPE	Remarks
Work clothing	g Replace before any evidence of deterioration. For periods of prolonged expositors 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 emerg	jency measures.
Environmental exposure controls:	
	for the protection of the environment it is recommended to avoid environmental For additional information see subsection 7.1.D
CTION 9: PHYSICAL AND CHEMICAL PF	ROPERTIES
Information on basic physical and chemica	Il properties:
For complete information see the product data	isheet.
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 *

*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 characteristics:		
	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 prope	rties:	Non-applicable *
	Corrosive to me	etals:	Non-applicable *
	Heat of combustion:		Non-applicable *
	Aerosols-total p components:	ercentage (by mass) of flammable	Non-applicable *
	Other safety cl	haracteristics:	
	Surface tension	at 20 °C:	Non-applicable *
	Refraction index	x:	Non-applicable *
*Not relevant due to the nature of the product, not providing information property			nation property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

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

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

10.5 Incompatible materials:

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

10.6 Hazardous decomposition products:

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

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

LD50 oral > 2000 mg/kg (rat)

Dangerous health implications:

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

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



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SECTION 11: TOX	ICOLOGICAL INFORMATION (continued)	
- Corrosivi	icity :Based on available data, the cla ty/Irritability: Based on available data, t n the skin and the eyes (acute effect):		net
- Contact v	vith the skin: Based on available data, vith the eyes: Based on available data, s (carcinogenicity, mutagenicity and to	the classification criteria are not	
IARC: Noi - Mutageni	enicity: Based on available data, the cl n-applicable city: Based on available data, the class ctive toxicity: Based on available data, effects:	sification criteria are not met	met
- Skin: Bas	ory: Based on available data, the classi ed on available data, the classification get organ toxicity (STOT) - single expo	criteria are not met	
Based on a	vailable data, the classification criteria	are not met	
G- Specific tar	get organ toxicity (STOT)-repeated exp	osure:	
- Skin: Bas	ed on available data, the classification or this effect. For more information see	criteria are not met, as it does not	a, the classification criteria are not met ot contain substances classified as
Based on a	vailable data, the classification criteria	are not met	
Other informat	ion:		
Non-applicable			
Specific toxico	logy information on the substances	:	
Not available			
Acute Toxicity	Estimate (ATE mix):		
	ATE mix		Ingredient(s) of unknown toxicity
Oral	>5000 mg/kg (Calcul	ation method)	Non-applicable

SECTION 12: ECOLOGICAL INFORMATION

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

>5000 mg/kg (Calculation method)

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

Non-applicable

Non-applicable

12.1 Toxicity:

Dermal

Inhalation

Not available

12.2 Persistence and degradability:

Not available

- 12.3 Bioaccumulative potential: Not available
- 12.4 Mobility in soil:

Not available

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

12.6 Other adverse effects:

Not described



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Printing: 15/09/2023 Date of compilation: 14/03/2022 Version: 1 SECTION 13: DISPOSAL CONSIDERATIONS 13.1 Waste treatment methods: Code Description Waste class 16 05 09 discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08 Non dangerous Type of waste: Non-applicable Non-applicable

Waste management (disposal and evaluation):

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

Regulations related to waste management:

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

UK legislation: The Waste Regulations 2011.

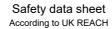
SECTION 14: TRANSPORT INFORMATION

Other information:

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

With regard to ADR 2021 and RID 2021:

withtege		
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:	
	UN proper shipping name: Transport hazard class(es):	Non-applicable Non-applicable
14.2		Non-applicable
14.2	Transport hazard class(es):	Non-applicable Non-applicable
14.2 14.3	Transport hazard class(es): Labels:	Non-applicable Non-applicable Non-applicable
14.2 14.3 14.4	Transport hazard class(es): Labels: Packing group:	Non-applicable Non-applicable Non-applicable Non-applicable
14.2 14.3 14.4 14.5	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	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	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	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	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	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	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	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	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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SECTION 14:	TRANSPORT INFORMATION	N (continued)
14.1	UN number:	Non-applicable
14.2	UN proper shipping name:	Non-applicable
14.3	Transport hazard class(es):	Non-applicable
	Labels:	Non-applicable
14.4	Packing group:	Non-applicable
14.5	Environmental hazards:	No
14.6	Special precautions for user	
	Physico-Chemical properties:	see section 9
14.7	Transport in bulk according to Annex II of Marpol and the IBC Code:	
SECTION 15:	REGULATORY INFORMATIC	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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S	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.



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1.1	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:
	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:

GB CLP Regulation:

Hazard statements:

Non-applicable

Precautionary statements:

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

P102: Keep out of reach of children.

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

2.3 Other hazards:

Product fails to meet PBT/vPvB criteria

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Non-applicable

3.2 Mixture:

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

Components:

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

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

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

By inhalation:

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

By skin contact:

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



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SECTION 4: FIRST AID MEASURES (continued)

By eye contact:

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

By ingestion/aspiration:

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

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

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

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

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

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

Unsuitable extinguishing media:

Non-applicable

5.2 Special hazards arising from the substance or mixture:

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

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...). Additional provisions:

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

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

For emergency responders:

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

6.2 Environmental precautions:

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

6.3 Methods and material for containment and cleaning up:

It is recommended:

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

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- General precautions for safe use



Printing: 15/09/2023 Date of compilation: 24/01/2022 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 dispose of using safe methods (section 6). B.- Technical recommendations for the prevention of fires and explosions It is recommended to transfer at a slow speed to avoid the creation of electrostatic charges that could affect flammable products. Consult section 10 for conditions and materials that should be avoided. 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 Pictogram PPF 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 PPE Pictogram 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 - CONTINUED ON NEXT PAGE -



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

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 ºC:	2350 Pa
Vapour pressure at 50 ºC:	12381.01 Pa (12.38 kPa)
Evaporation rate at 20 °C:	Non-applicable *
Product description:	
Density at 20 °C:	1064.6 kg/m³
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 informa	ation property of its hazards.



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SEC	TION 9: PHYSICAL AND CHEMIC	AL PROPER	ΓIES (continued)
	Upper flammability limit:		Non-applicable *
	Particle characteristics:		
	Median equivalent diameter:		Non-applicable
9.2	Other information:		
	Information with regard to physical h	azard 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 components:	flammable	Non-applicable *
	Other safety characteristics:		
	Surface tension at 20 °C:		Non-applicable *
	Refraction index:		Non-applicable *
	*Not relevant due to the nature of the product, n	ot providing informa	tion property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

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

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

10.5 Incompatible materials:

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

10.6 Hazardous decomposition products:

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

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

LD50 oral > 2000 mg/kg (rat)

Dangerous health implications:

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

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



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ECTION 11: TOXIC	COLOGICAL INFORMATION (continued)	
 Corrosivity 	tity :Based on available data, the cla /Irritability: Based on available data, the skin and the eyes (acute effect):		met
 Contact with 	th the skin: Based on available data, th the eyes: Based on available data (carcinogenicity, mutagenicity and to	, the classification criteria are no	
IARC: Non- - Mutagenic	ity: Based on available data, the clas ive toxicity: Based on available data,	sification criteria are not met	
- Skin: Base	y: Based on available data, the class d on available data, the classificatior at organ toxicity (STOT) - single expo	n criteria are not met	
Based on ava	ailable data, the classification criteria	are not met	
G- Specific targe	et organ toxicity (STOT)-repeated exp	oosure:	
- Skin: Base	ed on available data, the classification r this effect. For more information see	n criteria are not met, as it does	ata, the classification criteria are not met not contain substances classified as
Based on ava	ailable data, the classification criteria	are not met	
Other information	on:		
Non-applicable			
Specific toxicol	ogy information on the substances	3:	
Not available			
Acute Toxicity F	Estimate (ATE mix):		
	ATE mix		Ingredient(s) of unknown toxicity
Oral	>5000 mg/kg (Calcu	lation method)	Non-applicable
-	5000 m #/hm (Oslam	,	

				_
SECTION	12. ECOI	OGICAL	INFORMATION	

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

>5000 mg/kg (Calculation method)

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

Non-applicable

12.1 Toxicity:

Dermal

Inhalation

Not available

12.2 Persistence and degradability:

Not available

12.3 Bioaccumulative potential: Not available

12.4 Mobility in soil: Not available

12.5 Results of PBT and vPvB assessment:

Product fails to meet PBT/vPvB criteria

12.6 Other adverse effects:

Not described



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SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

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

Type of waste:

Non-applicable

Waste management (disposal and evaluation):

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

Regulations related to waste management:

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

UK legislation: The Waste Regulations 2011.

SECTION 14: TRANSPORT INFORMATION

Other information:

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

With regard to ADR 2021 and RID 2021:

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



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SECTION 14:	SECTION 14: TRANSPORT INFORMATION (continued)					
14.1	UN number:	Non-applicable				
14.2	UN proper shipping name:	Non-applicable				
14.3	Transport hazard class(es):	Non-applicable				
		Non-applicable				
14.4	Packing group:	Non-applicable				
14.5	Environmental hazards:	No				
14.6	Special precautions for user					
	Physico-Chemical properties:	see section 9				
14.7	Transport in bulk according to Annex II of Marpol and the IBC Code:	11				

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.



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nung	
SEC	CTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1	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
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

P102: Keep out of reach of children. P501: Dispose of the contents and/or its container using the separate collection system in your municipality.

2.3 Other hazards:

Product fails to meet PBT/vPvB criteria

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Non-applicable

3.2 Mixture:

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

Components:

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

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

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

By inhalation:

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

By skin contact:

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



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SECTION 4: FIRST AID MEASURES (continued)

By eye contact:

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

By ingestion/aspiration:

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

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

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

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

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

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

Unsuitable extinguishing media:

Non-applicable

5.2 Special hazards arising from the substance or mixture:

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

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...). Additional provisions:

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

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

For emergency responders:

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

6.2 Environmental precautions:

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

6.3 Methods and material for containment and cleaning up:

It is recommended:

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

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- General precautions for safe use



Comply with the curr Maintain order, clear B Technical recommer It is recommended to products. Consult se C Technical recommer Do not eat or drink d D Technical recommer It is not necessary to A Technical measures Maximum time: B General conditions for Avoid sources of hea 3 Specific end use(s): Except for the instruction product. ECTION 8: EXPOSURE 1 Control parameters: Substances whose occu There are no applicable 2 Exposure controls: A Individual protection As a preventative me marking>>. For more protection,) consul information containe it is not known wheth B Respiratory protection C Specific protection for Mandatory hand protection As the product is a n total reliability and ha D Eye and face protection	ND STORAGE (continued) ent legislation concerning the prev liness and dispose of using safe n indations for the prevention of fires	/ersion: 1 /ention of industrial risks with regards manually handling weights.		
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product. SECTION 8: EXPOSURE 8.1 Control parameters: Substances whose occu There are no applicable 8.2 Exposure controls: A Individual protection As a preventative me marking>>. For more protection,) consul information containe it is not known wheth B Respiratory protection The use of protection C Specific protection for Mandatory hand protection As the product is a na total reliability and has D Eye and face protect				
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 A Individual protection As a preventative marking>>. For more protection,) consult information containe it is not known wheth B Respiratory protection The use of protection C Specific protection for Mandatory hand protection As the product is a matotal reliability and has D Eye and face protection 	occupational exposure limits for th	ne substances contained in the product		
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marking>>. For more protection,) consult information containe it is not known wheth B Respiratory protection The use of protection for C Specific protection for C Specific protection for Mandatory hand protection As the product is a natotal reliability and has D Eye and face protection Pictogram	measures, such as personal prote	ective equipment		
C Specific protection for Pictogram Mandatory hand protection As the product is a n total reliability and has D Eye and face protect	As a preventative measure it is recommended to use basic Personal Protective Equipment, with the correspondin marking>>. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class or protection,) consult the information leaflet provided by the manufacturer. For more information see subsection 7 information contained herein is a recommendation which needs some specification from the labour risk preventior it is not known whether the company has additional measures at its disposal. B Respiratory protection			
Pictogram Mandatory hand protection As the product is a n total reliability and ha D Eye and face protect Pictogram	equipment will be necessary if a r	mist forms or if the occupational exposure limits are exceeded.		
Mandatory hand protection As the product is a n total reliability and ha D Eye and face protect Pictogram	r the hands			
Protection As the product is a n total reliability and ha D Eye and face protect Pictogram	PPE	Remarks		
As the product is a n total reliability and ha D Eye and face protect Pictogram	Chemical protective gloves	Replace the gloves at any sign of deterioration.		
total reliability and ha D Eye and face protect Pictogram	nixture of several substances, the r	I resistance of the glove material can not be calculated in advance with		
	as therefore to be checked prior to			
Pa	PPE	Remarks		
Mandatory face protection	noramic glasses against splash/projection	ns. Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.		
E Body protection				
, i				



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

It is not necessary to take additional emergency measures.

Environmental exposure controls:

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

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:	
Physical state at 20 °C:	Liquid
Appearance:	Colorless
Colour:	Not available
Odour:	Not available
Odour threshold:	Non-applicable *
Volatility:	
Boiling point at atmospheric pressure:	100 °C
Vapour pressure at 20 ºC:	2350 Pa
Vapour pressure at 50 ºC:	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 inf	formation 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	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 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, 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: TOXICOLOGICAL IN	NFORMATION (co	ontinued)	
 Acute toxicity : Based on av - Corrosivity/Irritability: Based C- Contact with the skin and the exist of the skin and the skin and the exist of the skin and the	on available data, th	sification criteria are not met e classification criteria are not m	net
	d on available data, i	ne classification criteria are not n he classification criteria are not n city to reproduction):	
 Carcinogenicity: Based on a IARC: Non-applicable Mutagenicity: Based on ava Reproductive toxicity: Based E- Sensitizing effects: 	lable data, the class		net
 Respiratory: Based on avail Skin: Based on available da F- Specific target organ toxicity (\$ 	ta, the classification	criteria are not met	
Based on available data, the c	assification criteria a	re not met	
G- Specific target organ toxicity (S	STOT)-repeated expo	osure:	
 Specific target organ toxicity Skin: Based on available da hazardous for this effect. For n H- Aspiration hazard: 	ta, the classification	criteria are not met, as it does no	a, the classification criteria are not met ot contain substances classified as
Based on available data, the c	assification criteria a	re not met	
Other information:			
Non-applicable			
Specific toxicology information	on the substances:		
Not available			
Acute Toxicity Estimate (ATE m	ix):		
	ATE mix		Ingredient(s) of unknown toxicity
Oral	>5000 mg/kg (Calcula	tion method)	Non-applicable

SECTION 12: ECOLOGICAL INFORMATION

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

>5000 mg/kg (Calculation method)

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

Non-applicable

Non-applicable

12.1 Toxicity:

Dermal

Inhalation

Not available

12.2 Persistence and degradability:

Not available

- 12.3 Bioaccumulative potential: Not available
- 12.4 Mobility in soil:

Not available

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

12.6 Other adverse effects:

Not described



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SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

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

Type of waste:

Non-applicable

Waste management (disposal and evaluation):

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

Regulations related to waste management:

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

UK legislation: The Waste Regulations 2011.

SECTION 14: TRANSPORT INFORMATION

Other information:

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

With regard to ADR 2021 and RID 2021:

wiintega					
14.1	UN number:	Non-applicable			
14.2	UN proper shipping name:	Non-applicable			
14.3	Transport hazard class(es):	Non-applicable			
	Labels:	Non-applicable			
14.4	Packing group:	Non-applicable			
14.5	Environmental hazards:	No			
14.6	Special precautions for user				
	Tunnel restriction code:	Non-applicable			
	Physico-Chemical properties:	see section 9			
14.7	Transport in bulk according to	Non-applicable			
	Annex II of Marpol and the IBC Code:				
Transpor	t of dangerous goods by sea:				
•					
With regard 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			
Transport of dangerous goods by air:					
With regard to IATA/ICAO 2023					

With regard to IATA/ICAO 2023:



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

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 (con	tinued)
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ADR: European agreement concerning the international carriage of dangerous goods by road IMDG: International maritime dangerous goods code
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
COD: Chemical Oxygen Demand
BOD5: 5day biochemical oxygen demand
BCF: Bioconcentration factor
LD50: Lethal Dose 50
LC50: Lethal Concentration 50
EC50: Effective concentration 50
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	Product identifier: Library Beads
	Other means of identification:
	LIB
.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	TION 2: HAZARDS IDENTIFICATION

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

2.2 Label elements:

GB CLP Regulation:

Hazard statements:

Non-applicable

Precautionary statements:

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

P102: Keep out of reach of children.

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

2.3 Other hazards:

Product fails to meet PBT/vPvB criteria

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Non-applicable

3.2 Mixture:

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

Components:

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

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

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

By inhalation:

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

By skin contact:

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



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SECTION 4: FIRST AID MEASURES (continued)

By eye contact:

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

By ingestion/aspiration:

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

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

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

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

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

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

Unsuitable extinguishing media:

Non-applicable

5.2 Special hazards arising from the substance or mixture:

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

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...). Additional provisions:

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

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

For emergency responders:

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

6.2 Environmental precautions:

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

6.3 Methods and material for containment and cleaning up:

It is recommended:

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

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- General precautions for safe use



Library Beads

SEC	TION 7: HANDLIN	G AND STORAGE (continued)			
	Maintain order, cl	current legislation concerning the preven leanliness and dispose of using safe met mendations for the prevention of fires and			
	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				
			vironmental risks. For more information see subsection 6.2		
7.2		storage, including any incompatibiliti	es:		
	A Technical measu	Ū.			
	Maximum time:	12 Months			
	B General condition	U			
			tact with food. For additional information see subsection 10.5		
7.3	Specific end use(s)				
	Except for the instruct product.	ctions already specified it is not necessar	y to provide any special recommendation regarding the uses of this		
	•				
SEC	TION 8: EXPOSUR	RE CONTROLS/PERSONAL PRO	TECTION		
8.1	Control parameters				
		ccupational exposure limits have to be m			
• •		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. B Respiratory protection</ukca>				
	The use of protect	ction equipment will be necessary if a mis	st forms or if the occupational exposure limits are exceeded.		
	C Specific protectio	n 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		1		
	• •				



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

It is not necessary to take additional emergency measures.

Environmental exposure controls:

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

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:	
Physical state at 20 °C:	Liquid
Appearance:	Colorless
Colour:	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:	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 informa-	ation property of its hazards.



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SEC	TION 9: PHYSICAL AND CH	HEMICAL PROPER	RTIES (continued)
	Upper flammability limit:		Non-applicable *
	Particle characteristics:		
	Median equivalent diameter:		Non-applicable
9.2	Other information:		
	Information with regard to phy	ysical hazard classes	s:
	Explosive properties:		Non-applicable *
	Oxidising properties:		Non-applicable *
	Corrosive to metals:		Non-applicable *
	Heat of combustion:		Non-applicable *
	Aerosols-total percentage (by m components:	nass) of flammable	Non-applicable *
	Other safety characteristics:		
	Surface tension at 20 °C:		Non-applicable *
	Refraction index:		Non-applicable *
	*Not relevant due to the nature of the p	product, not providing inform	nation property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

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

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

10.5 Incompatible materials:

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

10.6 Hazardous decomposition products:

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

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

LD50 oral > 2000 mg/kg (rat)

Dangerous health implications:

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

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



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CTION 11: TC	XICOLOGICAL INFORMATION (c	(continued)	
- Corros	oxicity :Based on available data, the cla vity/Irritability: Based on available data, t ith the skin and the eyes (acute effect):	, the classification criteria are not met	
- Contac	t with the skin: Based on available data, t with the eyes: Based on available data, cts (carcinogenicity, mutagenicity and to	a, the classification criteria are not met	
IARC: N - Mutage	ogenicity: Based on available data, the cl on-applicable nicity: Based on available data, the class uctive toxicity: Based on available data, g effects:	ssification criteria are not met	
- Skin: B	 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	Based on available data, the classification criteria are not met		
G- Specific ta	arget organ toxicity (STOT)-repeated exp	kposure:	
- Skin: B hazardou H- Aspiratior	 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	ation:		
Non-applicab	e		
Specific toxi	cology information on the substances	95:	
Not available			
Acute Toxici	ty Estimate (ATE mix):		
	ATE mix	Ingredient(s) of unknown toxicity	
Oral	>5000 mg/kg (Calcul		
Dermal	>5000 mg/kg (Calcul		
	001		

SECTION 12: ECOLOGICAL INFORMATION

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

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

Non-applicable

12.1 Toxicity:

Not available

Inhalation

12.2 Persistence and degradability:

Not available

- 12.3 Bioaccumulative potential: Not available
- 12.4 Mobility in soil:

Not available

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

12.6 Other adverse effects:

Not described



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SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

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

Type of waste:

Non-applicable

Waste management (disposal and evaluation):

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

Regulations related to waste management:

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

UK legislation: The Waste Regulations 2011.

SECTION 14: TRANSPORT INFORMATION

Other information:

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

With regard to ADR 2021 and RID 2021:

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



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

SECTION 15: REGULATORY INFORMATION

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

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

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

Non-applicable

Specific provisions in terms of protecting people or the environment:

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

Other legislation:

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

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

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

EH40/2005 Workplace exposure limits.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

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

Texts of the legislative phrases mentioned in section 3:

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

GB CLP Regulation:

Non-applicable

Classification procedure:

Non-applicable

Advice related to training:

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

Principal bibliographical sources:

http://echa.europa.eu

http://eur-lex.europa.eu

Abbreviations and acronyms:



Library Beads

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SECTION 16: OTHER INFORMATION (continued)

ADR: European agreement concerning the international carriage of dangerous goods by road IMDG: International maritime dangerous goods code IATA: International Air Transport Association ICAO: International Civil Aviation Organisation COD: Chemical Oxygen Demand BOD5: 5day biochemical oxygen demand BCF: Bioconcentration factor LD50: Lethal Dose 50 LC50: Lethal Concentration 50 EC50: Effective concentration 50 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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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	TION 2: HAZARDS IDENTIFICATION

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.

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

P102: Keep out of reach of children.

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

2.3 Other hazards:

Product fails to meet PBT/vPvB criteria

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Non-applicable

3.2 Mixture:

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

Components:

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

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

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

By inhalation:

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

By skin contact:

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



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SECTION 4: FIRST AID MEASURES (continued)

By eye contact:

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

By ingestion/aspiration:

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

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

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

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

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

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

Unsuitable extinguishing media:

Non-applicable

5.2 Special hazards arising from the substance or mixture:

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

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...). Additional provisions:

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

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

For emergency responders:

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

6.2 Environmental precautions:

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

6.3 Methods and material for containment and cleaning up:

It is recommended:

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

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- General precautions for safe use



SEC	TION 7: HANDLIN	G AND STORAGE (continued)	
	Maintain order, c	leanliness and dispose of using safe met mendations for the prevention of fires and	
		ed to transfer at a slow speed to avoid the t section 10 for conditions and materials	e creation of electrostatic charges that could affect flammable that should be avoided.
	C Technical recom	mendations on general occupational hyg	iene
	Do not eat or drir	nk during the process, washing hands aft	erwards with suitable cleaning products.
	D Technical recom	mendations to prevent environmental risk	KS
	It is not necessar	y to take special measures to prevent en	vironmental risks. For more information see subsection 6.2
7.2	Conditions for safe	storage, including any incompatibiliti	es:
	A Technical measu	res 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)	:	
	Except for the instruct product.	ctions already specified it is not necessar	y to provide any special recommendation regarding the uses of this
050			
SEC	TION 8: EXPOSUR	RE CONTROLS/PERSONAL PRO	TECTION
8.1	Control parameters	:	
	Substances whose o	occupational exposure limits have to be m	nonitored in the workplace:
	There are no applica	ble occupational exposure limits for the s	substances contained in the product
8.2	Exposure controls:		
	A Individual protect	ion measures, such as personal protectiv	ve equipment
	marking>>. For r protection,…) co information conta	nore information on Personal Protective E nsult the information leaflet provided by the ined herein is a recommendation which nether the company has additional meas	c Personal Protective Equipment, with the corresponding < <ukca Equipment (storage, use, cleaning, maintenance, class of he manufacturer. For more information see subsection 7.1. All needs some specification from the labour risk prevention services as ures at its disposal.</ukca
	The use of prote	ction equipment will be necessary if a mis	st forms or if the occupational exposure limits are exceeded.
	C Specific protection		
	Pictogram	PPE	Remarks
	m		T OTHER O
	Mandatory hand	Chemical protective gloves	Replace the gloves at any sign of deterioration.
		a mixture of several substances, the res d has therefore to be checked prior to the	l istance of the glove material can not be calculated in advance with e application.
	D Eye and face pro	tection	
	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	N 8: EXPOSUR	E CONTROLS/PERSONAL PRO	TECTION (continued)
	Pictogram	PPE	Remarks
		Work clothing	Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994.
F	Additional emerge	ency measures	

It is not necessary to take additional emergency measures.

Environmental exposure controls:

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

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:	
Physical state at 20 °C:	Liquid
Appearance:	Colorless
Colour:	Colourless
Odour:	Odourless
Odour threshold:	Non-applicable *
Volatility:	
Boiling point at atmospheric pressure:	100 °C
Vapour pressure at 20 ºC:	2350 Pa
Vapour pressure at 50 °C:	12381.01 Pa (12.38 kPa)
Evaporation rate at 20 °C:	Non-applicable *
Product description:	
Density at 20 °C:	1041.9 kg/m³
Relative density at 20 ºC:	1.042
Dynamic viscosity at 20 ºC:	1.08 cP
Kinematic viscosity at 20 °C:	1.03 mm²/s
Kinematic viscosity at 40 °C:	Non-applicable *
Concentration:	Non-applicable *
pH:	Non-applicable *
Vapour density at 20 °C:	Non-applicable *
Partition coefficient n-octanol/water 20 °C:	Non-applicable *
Solubility in water at 20 °C:	Non-applicable *
Solubility properties:	Non-applicable *
Decomposition temperature:	Non-applicable *
Melting point/freezing point:	Non-applicable *
Flammability:	
Flash Point:	Non Flammable (>60 °C)
Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	Non-applicable *
Lower flammability limit:	Non-applicable *
*Not relevant due to the nature of the product, not providing inform	ation property of its hazards.



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SEC	TION 9: PHYS	ICAL AND CHEMICAL PROPE	RTIES (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 classe	s:
	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 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	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

10.5 Incompatible materials:

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

10.6 Hazardous decomposition products:

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

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

LD50 oral > 2000 mg/kg (rat)

Dangerous health implications:

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

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



 CTION 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 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 Contact with the eyes: Based on available data, the classification criteria are not met Contact with the eyes: Based on available data, the classification criteria are not met Contact classification criteria are not met Carcinogenicity: Based on available data, the classification criteria are not met IARC: Non-applicable Mutagenicity: Based on available data, the classification criteria are not met Reproductive toxicity: Based on available data, the classification criteria are not met Reproductive toxicity: Based on available data, the classification criteria are not met Reproductive toxicity: Based on available data, the classification criteria are not met Skin: 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 	
 Corrosivity/Irritability: Based on available data, the classification criteria are not me Contact with the skin and the eyes (acute effect): Contact with the skin: Based on available data, the classification criteria are not me Contact with the eyes: Based on available data, the classification criteria are not me Contact with the eyes: Based on available data, the classification criteria are not me Contact with the eyes: Based on available data, the classification criteria are not me Contact with the eyes: Based on available data, the classification criteria are not me Carcinogenicity: Based on available data, the classification criteria are not met IARC: Non-applicable Mutagenicity: Based on available data, the classification criteria are not met Reproductive toxicity: Based on available data, the classification criteria are not met Respiratory: Based on available data, the classification criteria are not met Skin: Based on available data, the classification criteria are not met Skin: Based on available data, the classification criteria are not met 	
 Contact with the eyes: Based on available data, the classification criteria are not m CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction): Carcinogenicity: Based on available data, the classification criteria are not met IARC: Non-applicable Mutagenicity: Based on available data, the classification criteria are not met Reproductive toxicity: Based on available data, the classification criteria are not met Reproductive toxicity: Based on available data, the classification criteria are not met Respiratory: Based on available data, the classification criteria are not met Skin: Based on available data, the classification criteria are not met Specific target organ toxicity (STOT) - single exposure: 	
 IARC: Non-applicable Mutagenicity: Based on available data, the classification criteria are not met Reproductive toxicity: Based on available data, the classification criteria are not met Sensitizing effects: Respiratory: Based on available data, the classification criteria are not met Skin: Based on available data, the classification criteria are not met Specific target organ toxicity (STOT) - single exposure: 	
 Skin: Based on available data, the classification criteria are not met F- Specific target organ toxicity (STOT) - single exposure: 	et
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, Skin: Based on available data, the classification criteria are not met, as it does not 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:	
Non-applicable	
Specific toxicology information on the substances:	
Not available	
Acute Toxicity Estimate (ATE mix):	
ATE mix	
Oral >5000 mg/kg (Calculation method) N	Ingredient(s) of unknown toxicity

SECTION 12: ECOLOGICAL INFORMATION

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

>5000 mg/kg (Calculation method)

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

Non-applicable

12.1 Toxicity:

Dermal

Inhalation

Not available

12.2 Persistence and degradability:

Not available

- 12.3 Bioaccumulative potential: Not available
- 12.4 Mobility in soil:

Not available

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

12.6 Other adverse effects:

Not described



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SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

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

Type of waste:

Non-applicable

Waste management (disposal and evaluation):

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

Regulations related to waste management:

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

UK legislation: The Waste Regulations 2011.

SECTION 14: TRANSPORT INFORMATION

Other information:

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

With regard to ADR 2021 and RID 2021:

wiintega		
14.1	UN number:	Non-applicable
14.2	UN proper shipping name:	Non-applicable
14.3	Transport hazard class(es):	Non-applicable
	Labels:	Non-applicable
14.4	Packing group:	Non-applicable
14.5	Environmental hazards:	No
14.6	Special precautions for user	
	Tunnel restriction code:	Non-applicable
	Physico-Chemical properties:	see section 9
14.7	Transport in bulk according to	Non-applicable
	Annex II of Marpol and the IBC	
	Code:	
Transpor	t of dangerous goods by sea:	
With rega	rd to IMDG 40-20:	
14.1	UN number:	Non-applicable
14.2	UN proper shipping name:	Non-applicable
14.2 14.3	UN proper shipping name: Transport hazard class(es):	Non-applicable Non-applicable
	Transport hazard class(es):	Non-applicable
14.3	Transport hazard class(es): Labels:	Non-applicable Non-applicable
14.3 14.4	Transport hazard class(es): Labels: Packing group:	Non-applicable Non-applicable Non-applicable
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant:	Non-applicable Non-applicable Non-applicable
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user	Non-applicable Non-applicable Non-applicable No
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations:	Non-applicable Non-applicable Non-applicable No
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes:	Non-applicable Non-applicable No No Non-applicable
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties:	Non-applicable Non-applicable No Non-applicable No Non-applicable see section 9
14.3 14.4 14.5	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group: Transport in bulk according to	Non-applicable Non-applicable No Non-applicable see section 9 Non-applicable Non-applicable
14.3 14.4 14.5 14.6	Transport hazard class(es): Labels: Packing group: Marine pollutant: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group:	Non-applicable Non-applicable No Non-applicable see section 9 Non-applicable Non-applicable
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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:	
L		
SECTION 15:	REGULATORY INFORMATIC	ON

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

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

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

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

Non-applicable

Specific provisions in terms of protecting people or the environment:

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

Other legislation:

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

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

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

EH40/2005 Workplace exposure limits.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

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

Texts of the legislative phrases mentioned in section 3:

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

GB CLP Regulation:

Non-applicable

Classification procedure:

Non-applicable

Advice related to training:

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

Principal bibliographical sources:

http://echa.europa.eu

http://eur-lex.europa.eu

Abbreviations and acronyms:



Library Solution

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Version: 1 SECTION 16: OTHER INFORMATION (continued)

ADD. European agreement concerning the international carriage of dengarous goods by read
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 -



Native Adapter

rinting	15/09/2023 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:
	ΝΑ
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)
	http://www.nanoporetech.com/
	http://www.nanoporetech.com/ Emergency telephone number: +44 (0)845 034 7900 (9am-5:30pm GMT) TION 2: HAZARDS IDENTIFICATION Classification of the substance or mixture:
SEC	http://www.nanoporetech.com/ Emergency telephone number: +44 (0)845 034 7900 (9am-5:30pm GMT) TION 2: HAZARDS IDENTIFICATION Classification of the substance or mixture: GB CLP Regulation:
SEC 2.1	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:
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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:
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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 non-inflammable nature, the product does not present a fire risk under normal conditions of storage, handling and use.

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...). Additional provisions:

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

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

For emergency responders:

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

6.2 Environmental precautions:

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

6.3 Methods and material for containment and cleaning up:

It is recommended:

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

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:



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SEC	TION 7: HAND	DLING AND STORAGE (continu	led)		
	A - General pre	ecautions for safe use			
	Comply wit Maintain or		safe methods (section 6).	s with regards manually handling weigh	ts.
	products. C	nended to transfer at a slow speed to Consult section 10 for conditions and r recommendations on general occupati	naterials that should be avoid	tatic charges that could affect flammabl ed.	e
	Do not eat	or drink during the process, washing I	hands afterwards with suitable	e cleaning products.	
	D Technical r	ecommendations to prevent environm	nental risks		
	It is not nec	cessary to take special measures to p	revent environmental risks. F	or more information see subsection 6.2	
2	Conditions for	r safe storage, including any incom	npatibilities:		
	A Technical n	neasures for storage			
	Maximum t	ime: 12 Months			
	B General co	nditions for storage			
	Avoid source	ces of heat, radiation, static electricity	and contact with food. For ac	ditional information see subsection 10.5	5
3	Specific end u	use(s):			
	Except for the i product.	instructions already specified it is not	necessary to provide any spe	cial recommendation regarding the use	s of this
			DEATEOTION		
DEC	TION 6. EXPC	OSURE CONTROLS/PERSONA	AL PROTECTION		
.1	Control param	ieters:			
	Substances wh	nose occupational exposure limits hav	e to be monitored in the work	place:	
	EH40/2005 Wo	rkplace exposure limits, fourth edition	, published 2020:		
	Ohusanal	Identification		Occupational exposure limits WEL (8h) 10 mg/	1003
	Glycerol CAS: 56-81-5			WEL (8h) 10 mg/ WEL (15 min) 10 mg/	/m-
2	Exposure con	trols:			
-	-	protection measures, such as persona	I protective equipment		
	As a prever marking>>. protection,. information	ntative measure it is recommended to For more information on Personal Pr) consult the information leaflet prov	use basic Personal Protectiv otective Equipment (storage, rided by the manufacturer. Fo on which needs some specific	e Equipment, with the corresponding <- use, cleaning, maintenance, class of more information see subsection 7.1. ation from the labour risk prevention set	All
	B Respiratory				
	The use of	protection equipment will be necessa	ry if a mist forms or if the occ	upational exposure limits are exceeded.	
	C Specific pro	otection for the hands			
	Distance			Demender	

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.



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CTION 8: EXPOSURE CONTROLS/PI	ERSONAL F	PROTECTION (continued)		
E Body protection				
Pictogram PP	C	Remarks		
	_	Terriario		
Work cl	othing	Replace before any evidence of deterioration. For periods of prolonged exposite 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 er	mergency mea	asures.		
Environmental exposure controls:				
	ion for the pro	tection of the environment it is recommended to avoid environmental		
spillage of both the product and its contain				
CTION 9: PHYSICAL AND CHEMICAL	PROPERT	TES		
Information on basic physical and cher	nical properti	les:		
For complete information see the product				
Appearance:				
Physical state at 20 °C:		Liquid		
Appearance:		Colorless		
Colour:		Colourless		
Odour:		Odourless		
Odour threshold:	Non-applicable *			
olatility:				
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:		1144 kg/m³		
Relative density at 20 °C:		1.144		
Dynamic viscosity at 20 °C:		Non-applicable *		
Kinematic viscosity at 20 °C:		Non-applicable *		
Kinematic viscosity at 40 °C:		Non-applicable *		
Concentration:		Non-applicable *		
pH:		Non-applicable *		
Vapour density at 20 °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 *		

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

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

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

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

10.5 Incompatible materials:

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

10.6 Hazardous decomposition products:

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

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

LD50 oral > 2000 mg/kg (rat)

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure: A- Ingestion (acute effect):

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



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CTION 11: TO	KICOLOGICAL INFORMATION (continued)		
B- Inhalation	acute effect):			
Acute toCorrosiv	xicity : Based on available data, the cl ity/Irritability: Based on available data, th the skin and the eyes (acute effect):	the classification criteria are		
- Contact	with the skin: Based on available data with the eyes: Based on available data ts (carcinogenicity, mutagenicity and to	a, the classification criteria are		
IARC: No - Mutager	genicity: Based on available data, the o on-applicable nicity: Based on available data, the clas ictive toxicity: Based on available data effects:	ssification criteria are not met	t	
- Skin: Ba	tory: Based on available data, the class sed on available data, the classificatio rget organ toxicity (STOT) - single expo	n criteria are not met		
Based on a	available data, the classification criteria	a are not met		
G- Specific ta	get organ toxicity (STOT)-repeated ex	posure:		
- 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	available data, the classification criteria	a are not met		
Other informa	ition:			
Non-applicable	4			
-	ology information on the substance	5.		
Not available				
Acute Toxicit	y Estimate (ATE mix):			
	ATE mix		Ingredient(s) of unknown toxicity	
Oral	>5000 mg/kg (Calc	ulation method)	Non-applicable	
Dermal	>5000 mg/kg (Calc	ulation method)	Non-applicable	
		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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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:	
Transpor	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
Transpor	rt of dangerous goods by air:	
14/211	rd to IATA/ICAO 2023	

With regard to IATA/ICAO 2023:

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

SECTION 15: REGULATORY INFORMATION

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

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

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

Non-applicable

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)			
	n agreement concerning the internationa tional maritime dangerous goods code	al carriage of dangerous go	ods by road	
	onal Air Transport Association			
	ional Civil Aviation Organisation			
	al Oxygen Demand			
	iochemical oxygen demand			
	entration factor			
LD50: Lethal D				
LC50: Lethal C	Concentration 50			
EC50: Effectiv	e concentration 50			
	anolwater partition coefficient			
Koc: Partition	coefficient of organic carbon			
UFI: unique for	rmula identifier			
IARC: Internat	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.

- END OF SAFETY DATA SHEET -

Revised: 06/09/2022



Native Barcodes / Native Barcode Plate

Printing	g: 15/09/2023 Date of compilation:	16/02/2022	Version: 1
SEC	CTION 1: IDENTIFICATION OF TH	E SUBSTANC	CE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1	Product identifier:	Native Barco	des / Native Barcode Plate
	Other means of identification:		
	NB01-96, NB01-12, NB13-24		
1.2	Relevant identified uses of the subs	stance or mixtur	re and uses advised against:
	Relevant uses: Research use only		
	Uses advised against: All uses not spe	ecified in this sec	tion or in section 7.3
1.3	Details of the supplier of the safety	data sheet:	
	Oxford Nanopore Technologies Gosling Building, Edmund Halley Road OX4 4DQ Oxford - Oxon - England Phone: +44 (0)845 034 7900 - Fax: +4 http://www.nanoporetech.com/	4 (0)845 034 79	01
1.4	Emergency telephone number: +44	4 (0)845 034 790	0 (9am-5:30pm GMT)
SEC	CTION 2: HAZARDS IDENTIFICAT	ION	
SEC 2.1	CTION 2: HAZARDS IDENTIFICAT Classification of the substance or m		
	Classification of the substance or m	nixture:	o GB CLP Regulation.
	Classification of the substance or m GB CLP Regulation: The product is not classified as hazard Label elements:	nixture:	o GB CLP Regulation.
2.1	Classification of the substance or m GB CLP Regulation: The product is not classified as hazard Label elements: GB CLP Regulation:	nixture:	o GB CLP Regulation.
2.1	Classification of the substance or m GB CLP Regulation: The product is not classified as hazard Label elements: GB CLP Regulation: Hazard statements:	nixture:	o GB CLP Regulation.
2.1	Classification of the substance or m GB CLP Regulation: The product is not classified as hazard Label elements: GB CLP Regulation: Hazard statements: Non-applicable	nixture:	o GB CLP Regulation.
2.1	Classification of the substance or m GB CLP Regulation: The product is not classified as hazard Label elements: GB CLP Regulation: Hazard statements: Non-applicable Precautionary statements:	hixture:	
2.1	Classification of the substance or m GB CLP Regulation: The product is not classified as hazard Label elements: GB CLP Regulation: Hazard statements: Non-applicable Precautionary statements: P101: If medical advice is needed, hav P102: Keep out of reach of children.	hixture: dous according to ve product conta	
2.1	Classification of the substance or m GB CLP Regulation: The product is not classified as hazard Label elements: GB CLP Regulation: Hazard statements: Non-applicable Precautionary statements: P101: If medical advice is needed, hav P102: Keep out of reach of children.	hixture: dous according to ve product conta	iner or label at hand.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Non-applicable

3.2 Mixture:

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

Components:

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

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

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

By inhalation:

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

By skin contact:

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



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

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

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

Unsuitable extinguishing media:

Non-applicable

5.2 Special hazards arising from the substance or mixture:

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

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...). Additional provisions:

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

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

For emergency responders:

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

6.2 Environmental precautions:

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

6.3 Methods and material for containment and cleaning up:

It is recommended:

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

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- General precautions for safe use



Native Barcodes / Native Barcode Plate

SEC	TION 7: HANDLING	G AND STORAGE (continued)					
	Maintain order, cl	current legislation concerning the preven eanliness and dispose of using safe met nendations for the prevention of fires an					
	It is recommended to transfer at a slow speed to avoid the creation of electrostatic charges that could affect flammable products. Consult section 10 for conditions and materials that should be avoided.						
	C Technical recom	mendations on general occupational hyg	iene				
		k during the process, washing hands aft					
		nendations to prevent environmental risk					
			vironmental risks. For more information see subsection 6.2				
7.2		storage, including any incompatibiliti	es:				
	A Technical measu	0					
	Maximum time:	12 Months					
	B General conditior	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)						
	Except for the instruc product.	tions already specified it is not necessar	y to provide any special recommendation regarding the uses of this				
	product.						
<u>ого</u>			TECTION				
SEC	TION 6. EXPOSOR	RE CONTROLS/PERSONAL PRO	TECTION				
8.1	Control parameters	:					
	Substances whose o	ccupational exposure limits have to be n	nonitored in the workplace:				
	There are no applica	ble occupational exposure limits for the s	substances contained in the product				
8.2	Exposure controls:						
	A Individual protect	ion measures, such as personal protectiv	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.</ukca>						
	B Respiratory prote	ction					
	The use of protect	The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.					
	C Specific protectio	n for the hands					
	Pictogram	PPE	Remarks				
		Chemical protective gloves	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 e application.				
	Pictogram	PPE	Remarks				
		Panoramic glasses against splash/projections.	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.				
	Mandatory face protection						
	E Body protoction						
	E Body protection						



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CTION 8: EXPOSURE CONTROLS/I	PERSONAL PRO	DTECTION (continued)
Pictogram	PPE	Remarks
Work	clothing	Replace before any evidence of deterioration. For periods of prolonged exposite 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	emergency measur	es.
Environmental exposure controls:		
In accordance with the community legisl spillage of both the product and its conta		ion of the environment it is recommended to avoid environmental information see subsection 7.1.D
CTION 9: PHYSICAL AND CHEMICA	AL PROPERTIES	6
Information on basic physical and ch	emical properties:	
For complete information see the produc	ct datasheet.	
Appearance:		
Physical state at 20 °C:	Liq	uid
Appearance:	Col	lorless
Colour:	Not	t available
Odour:	Not	t available
Odour threshold:	No	n-applicable *
Volatility:		
Boiling point at atmospheric pressure:	100	℃
Vapour pressure at 20 °C:	235	50 Pa
Vapour pressure at 50 °C:	123	381.01 Pa (12.38 kPa)
Evaporation rate at 20 °C:	No	n-applicable *
Product description:		
Density at 20 °C:	103	33.6 kg/m ³
Relative density at 20 °C:	1.0	34
Dynamic viscosity at 20 °C:	No	n-applicable *
Kinematic viscosity at 20 °C:	Nor	n-applicable *
Kinematic viscosity at 40 °C:	Nor	n-applicable *
Concentration:	No	n-applicable *
pH:	No	n-applicable *
Vapour density at 20 °C:	No	n-applicable *
Partition coefficient n-octanol/water 20 %	C: No	n-applicable *
Solubility in water at 20 °C:	No	n-applicable *
Solubility properties:	Co	mpletely miscible
Decomposition temperature:	No	n-applicable *
Melting point/freezing point:	No	n-applicable *
Flammability:		
Flash Point:	No	n Flammable (>60 °C)
Flammability (solid, gas):	No	n-applicable *
Autoignition temperature:		n-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 PROPI	ERTIES (continued)	
	Upper flammab	ility limit:	Non-applicable *	
	Particle charac	cteristics:		
	Median equivale	ent diameter:	Non-applicable	
9.2	Other informat	ion:		
	Information wi	th regard to physical hazard class	ses:	
	Explosive prope	erties:	Non-applicable *	
	Oxidising prope	rties:	Non-applicable *	
	Corrosive to me	etals:	Non-applicable *	
	Heat of combus	stion:	Non-applicable *	
	Aerosols-total p components:	ercentage (by mass) of flammable	Non-applicable *	
	Other safety cl	haracteristics:		
	Surface tension	at 20 °C:	Non-applicable *	
	Refraction index	X:	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, 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)	
- Corrosi	oxicity :Based on available data, the cla vity/Irritability: Based on available data, t ith the skin and the eyes (acute effect):		met
- Contac	with the skin: Based on available data, with the eyes: Based on available data, sts (carcinogenicity, mutagenicity and tox	the classification criteria are no	
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:	sification criteria are not met	: met
- Skin: B	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	osure:	
- Skin: B hazardous H- Aspiration	ased on available data, the classification for this effect. For more information see	criteria are not met, as it does n e section 3.	ata, the classification criteria are not met not contain substances classified as
Other inform			
Non-applicabl			
	。 cology information on the substances		
•	singy mornation on the substances		
Not available			
Acute Toxici	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
			The second se

Non-applicable

SECTION 12: ECOLOGICAL INFORMATION

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

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

12.1 Toxicity:

Not available

Inhalation

12.2 Persistence and degradability:

Not available

- 12.3 Bioaccumulative potential: Not available
- 12.4 Mobility in soil:

Not available

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

12.6 Other adverse effects:

Not described



Printing: 15/09/2023 Date of compilation: 16/02/2022 Version: 1 SECTION 13: DISPOSAL CONSIDERATIONS 13.1 Waste treatment methods: Code Description Waste class 16 05 09 discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08 Non dangerous Type of waste: Non-applicable Waste management (disposal and evaluation): Consult the authorized waste service manager on the assessment and disposal operations in accordance The Waste Regulations

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.

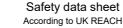
SECTION 14: TRANSPORT INFORMATION

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:

wiin rega	In 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	t of dangerous goods by sea:	
With rega	rd to IMDG 40-20:	
14.1	UN number:	Non-applicable
1 - 1 - 1		non applicable
14.2	UN proper shipping name:	Non-applicable
14.2	UN proper shipping name:	Non-applicable
14.2	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 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 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 14.7 Transpor	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



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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:	Non-applicable	

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

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

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

Non-applicable

Specific provisions in terms of protecting people or the environment:

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

Other legislation:

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

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

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

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

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

Texts of the legislative phrases mentioned in section 3:

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

GB CLP Regulation:

Non-applicable

Classification procedure:

Non-applicable

Advice related to training:

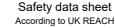
Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

http://echa.europa.eu

http://eur-lex.europa.eu

Abbreviations and acronyms:



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SEC	TION 16: OTHE	ER INFORMATION (continued)	
	IMDG: Internation IATA: Internation ICAO: Internation COD: Chemical 0 BOD5: 5day biod BCF: Bioconcent LD50: Lethal Dos LC50: Lethal Con EC50: Effective of LogPOW: Octand Koc: Partition con UFI: unique form	se 50 ncentration 50 concentration 50 olwater partition coefficient efficient of organic carbon	carriage of dangerous goods 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: IDENTIFI	CATION OF THE SUBSTAI	NCE/MIXTURE AND OF	THE COMPANY/UNDERTAKING			
1.1	Product identifier:	Sequencin	g Buffer / RNA Running Buffe	r			
	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 supp	plier of the safety data sheet:					
	OX4 4DQ Oxford - 0	dmund Halley Road, Oxford Scie					
	http://www.nanopore		7301				
1.4	Emergency teleph	one number: +44 (0)845 034 7	900 (9am-5:30pm GMT)				
SEC	TION 2: HAZARD	S IDENTIFICATION					
SEC 2.1		S IDENTIFICATION					
		ne substance or mixture:					
	Classification of th GB CLP Regulatio The product is not o	ne substance or mixture:	g to GB CLP Regulation.				
	Classification of th GB CLP Regulatio The product is not of Label elements:	ne substance or mixture: n: classified as hazardous accordin	g to GB CLP Regulation.				
2.1	Classification of th GB CLP Regulatio The product is not of Label elements: GB CLP Regulatio	ne substance or mixture: n: classified as hazardous according n:	g to GB CLP Regulation.				
2.1	Classification of th GB CLP Regulatio The product is not of Label elements: GB CLP Regulatio Hazard statements	ne substance or mixture: n: classified as hazardous according n:	g to GB CLP Regulation.				
2.1	Classification of th GB CLP Regulatio The product is not of Label elements: GB CLP Regulatio Hazard statements Non-applicable	ne substance or mixture: n: classified as hazardous accordin n: s:	g to GB CLP Regulation.				
2.1	Classification of th GB CLP Regulatio The product is not of Label elements: GB CLP Regulatio Hazard statements Non-applicable Precautionary stat	ne substance or mixture: n: classified as hazardous accordin; n: s: tements:					
2.1	Classification of th GB CLP Regulatio The product is not of Label elements: GB CLP Regulatio Hazard statements Non-applicable Precautionary stat P101: If medical ad P102: Keep out of the	ne substance or mixture: n: classified as hazardous accordin n: s: tements: lvice is needed, have product coi	ntainer or label at hand.	ystem in your municipality.			
2.1	Classification of th GB CLP Regulatio The product is not of Label elements: GB CLP Regulatio Hazard statements Non-applicable Precautionary stat P101: If medical ad P102: Keep out of the	ne substance or mixture: n: classified as hazardous accordin n: s: tements: lvice is needed, have product cor reach of children.	ntainer or label at hand.	ystem in your municipality.			

3.1 Substance:

Non-applicable

3.2 Mixture:

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

Components:

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

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

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

By inhalation:

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

By skin contact:

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



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SEC	TION 4: FIRST A	AID MEASURES (continued)			
	By eye contact:				
	Rinse with water	until the product has been eliminate	ed. In case of problems, cons	ult a doctor showing the SDS for the product.	
	By ingestion/as	piration:			
	In case of consur	nption in large quantities, it is recon	nmended to seek medical ass	sistance.	
4.2	Most important	symptoms and effects, both acut	e and delayed:		
	Acute and delaye	d effects are indicated in sections 2	2 and 11.		
4.3	Indication of any	y immediate medical attention an	d special treatment needed	:	
	Non-applicable				
SEC		GHTING MEASURES			
SEC	TION 5. FIREFIC	BHTING MEASURES			
5.1	Extinguishing m	edia:			
	Suitable extinguishing media:				
	Suitable extingu	ishing media:			
	Product is non-fla storage, handling	mmable, with a low risk of fire due t and use. In the case of the existence uishing agent can be used (ABC Po	ce of sustained combustion as	tics of the product in normal conditions of s a result of improper handling, storage or use	
	Product is non-fla storage, handling any type of exting	mmable, with a low risk of fire due t and use. In the case of the existence uishing agent can be used (ABC Po	ce of sustained combustion as		
5.2	Product is non-fla storage, handling any type of exting Unsuitable extin Non-applicable	mmable, with a low risk of fire due t and use. In the case of the existence uishing agent can be used (ABC Po	ce of sustained combustion as owder, water,)		
5.2	Product is non-fla storage, handling any type of exting Unsuitable extin Non-applicable Special hazards	mmable, with a low risk of fire due t and use. In the case of the existence uishing agent can be used (ABC Po guishing media: arising from the substance or mit	ce of sustained combustion as bowder, water,)		
5.2	Product is non-fla storage, handling any type of exting Unsuitable extin Non-applicable Special hazards	mmable, with a low risk of fire due to and use. In the case of the existence uishing agent can be used (ABC Po guishing media: arising from the substance or min ammable nature, the product does in	ce of sustained combustion as bowder, water,)	s a result of improper handling, storage or use	
	Product is non-fla storage, handling any type of exting Unsuitable exting Non-applicable Special hazards Due to its non-infl Advice for firefig Depending on the	mmable, with a low risk of fire due t and use. In the case of the existence uishing agent can be used (ABC Po guishing media: arising from the substance or mit ammable nature, the product does n hters: magnitude of the fire it may be need n emergency facilities and equipme	ce of sustained combustion as owder, water,) xture: not present a fire risk under n cessary to use full protective c	s a result of improper handling, storage or use ormal conditions of storage, handling and use.	
	Product is non-fla storage, handling any type of exting Unsuitable exting Non-applicable Special hazards Due to its non-infl Advice for firefig Depending on the (SCBA). Minimur Additional provis Act in accordance emergencies. Elin	mmable, with a low risk of fire due to and use. In the case of the existence uishing agent can be used (ABC Po- guishing media: arising from the substance or min ammable nature, the product does no hters: magnitude of the fire it may be need in emergency facilities and equipme sions: with the Internal Emergency Plan a ninate all sources of ignition. In case bosion or BLEVE as a result of high to	ce of sustained combustion as owder, water,) xture: not present a fire risk under n cessary to use full protective of nt should be available (fire bla and the Information Sheets or e of fire, cool the storage cont	s a result of improper handling, storage or use ormal conditions of storage, handling and use.	

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: HAN	DLING	AND STORAGE (continue	ed)			
	A General pr	ecautio	ns for safe use				
	Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6). B Technical recommendations for the prevention of fires and explosions						
	products.	Consult	to transfer at a slow speed to a section 10 for conditions and m endations on general occupatio	aterials t	nat should be avoi	ostatic charges that could affect flammable ded.	
	Do not eat	or drink	during the process, washing ha	ands afte	rwards with suitab	le cleaning products.	
	D Technical ı	recomm	endations to prevent environme	ental risks	3		
	It is not ne	cessary	to take special measures to pre	event env	rironmental risks. I	For more information see subsection 6.2	
7.2	Conditions fo	or safe s	torage, including any incomp	atibilitie	s:		
	A Technical	measure	es for storage				
	Maximum	time:	12 Months				
	B General co	onditions	s for storage				
	Avoid sour	ces of h	eat, radiation, static electricity a	and conta	ct with food. For a	additional information see subsection 10.5	
7.3	Specific end	use(s):					
	Except for the product.	instruct	ions already specified it is not n	ecessary	to provide any sp	ecial recommendation regarding the uses of this	
SEC	CTION 8: EXP	OSURI	E CONTROLS/PERSONAL	_ PROT	ECTION		
8.1	Control parar	neters:					
	Substances w	hose oc	cupational exposure limits have	to be m	onitored in the wor	kplace:	
	There are no a	applicab	le occupational exposure limits	for the su	ubstances contain	ed in the product	
8.2	Exposure cor	ntrols:					
	A Individual p	orotectic	on measures, such as personal	protectiv	e equipment		
	 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.</ukca> B Respiratory protection 						
	The use of	protect	on equipment will be necessary	/ if a mist	forms or if the oc	cupational exposure limits are exceeded.	
	C Specific pr	otection	for the hands				
	Pictogr	am	PPE	T		Remarks	

Pictogram	PPE	Remarks
Mandatory hand protection	Chemical protective gloves	Replace the gloves at any sign of deterioration.

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

D.- Eye and face protection

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



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CTION 8: EXPOSURE CONTROLS/PERS	DNAL PROTECTION (continued)
Pictogram PPE	Remarks
Work clothing	Replace before any evidence of deterioration. For periods of prolonged exposite to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN 13688:2013, EN 464:1994.
F Additional emergency measures	
It is not necessary to take additional emerge	ancy measures.
Environmental exposure controls:	
In accordance with the community legislation fo spillage of both the product and its container. Fo	r the protection of the environment it is recommended to avoid environmental or additional information see subsection 7.1.D
CTION 9: PHYSICAL AND CHEMICAL PR	OPERTIES
Information on basic physical and chemical	
For complete information see the product datas	heet.
Appearance:	
Physical state at 20 °C:	Liquid
Appearance:	Colorless
Colour:	Colourless
Odour:	Odourless
Odour threshold:	Non-applicable *
Volatility:	
Boiling point at atmospheric pressure:	100 °C
Vapour pressure at 20 °C:	2350 Pa
Vapour pressure at 50 °C:	12381.01 Pa (12.38 kPa)
Evaporation rate at 20 °C:	Non-applicable *
Product description:	
Density at 20 °C:	1105.7 kg/m ³
Relative density at 20 °C:	1.106
Dynamic viscosity at 20 °C:	Non-applicable *
Kinematic viscosity at 20 °C:	Non-applicable *
Kinematic viscosity at 40 °C:	Non-applicable *
Concentration:	Non-applicable *
pH: Vapour depoits at 20 °C:	Non-applicable *
Vapour density at 20 °C: Partition coefficient n-octanol/water 20 °C:	Non-applicable *
Solubility in water at 20 °C:	Non-applicable * Non-applicable *
Solubility in water at 20 °C: Solubility properties:	
	Completely miscible Non-applicable *
Decomposition temperature: Melting point/freezing point:	Non-applicable *
Flammability:	14011-applicable
Flash Point:	Non Flammable (>60 °C)
Flash Folint. Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	Non-applicable *
Lower flammability limit:	Non-applicable *

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SEC	TION 9: PHYS	ICAL AND CHEMICAL PROPER	RTIES (continued)	
	Upper flammab	ility limit:	Non-applicable *	
	Particle charac	teristics:		
	Median equivale	ent diameter:	Non-applicable	
9.2	Other informat	ion:		
	Information with	th regard to physical hazard classes	5:	
	Explosive prope	erties:	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 cl	naracteristics:		
	Surface tension at 20 °C:		Non-applicable *	
	Refraction index	C.	Non-applicable *	
	*Not relevant due to	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	Avoid strong acids Not applicable		Not applicable	Avoid alkalis or strong bases

10.6 Hazardous decomposition products:

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

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

LD50 oral > 2000 mg/kg (rat)

Dangerous health implications:

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

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



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SECTION 11: TO	ECTION 11: TOXICOLOGICAL INFORMATION (continued)					
- Corrosiv	 Acute toxicity : Based on available data, the classification criteria are not met Corrosivity/Irritability: Based on available data, the classification criteria are not met Contact with the skin and the eyes (acute effect): 					
- Contact	 Contact with the skin: Based on available data, the classification criteria are not met Contact with the eyes: Based on available data, the classification criteria are not met CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction): 					
IARC: No - Mutager - Reprodu	 Carcinogenicity: Based on available data, the classification criteria are not met IARC: Non-applicable Mutagenicity: Based on available data, the classification criteria are not met Reproductive toxicity: Based on available data, the classification criteria are not met Sensitizing effects: 					
- Skin: Ba	 Respiratory: Based on available data, the classification criteria are not met Skin: Based on available data, the classification criteria are not met F- Specific target organ toxicity (STOT) - single exposure: 					
Based on a	Based on available data, the classification criteria are not met G- Specific target organ toxicity (STOT)-repeated exposure:					
G- Specific tai						
- Skin: Ba hazardous	 Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3. H- Aspiration hazard: 					
Based on a	Based on available data, the classification criteria are not met					
Other informa	Other information:					
Non-applicable	Non-applicable					
Specific toxic	Specific toxicology information on the substances:					
Not available						
Acute Tovicit						
	Acute Toxicity Estimate (ATE mix):					
Oral	>5000 mg/kg (Calcu	lation method)	Non-applicable			
Dermal	>5000 mg/kg (Calcu		Non-applicable			
Inhalation	>20 mg/L (4 h) (Calo	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	TION 13: I	DISPOSAL CONSIDERATIO	NS			
5.1		atment methods:				
	Code		Description	Waste class		
	16 05 09	discarded chemicals other than those	e mentioned in 16 05 06, 16 05 07 or 16 05 08	Non dangerous		
	Type of w			5		
	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 legisla	tion: The Waste Regulations 2011.				
		TRANSPORT INFORMATION	1			
		formation:	regulations on the transport of dangerous goods			
	-	rt of dangerous goods by land:	regulations on the transport of dangelous goods			
	-	ard to ADR 2021 and RID 2021:				
	14.1	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			
		Environmental hazards:	No			
	14.6					
		Tunnel restriction code:	Non-applicable see section 9			
	14.7	Physico-Chemical properties: Transport in bulk according to				
	14.7	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		Non-applicable			
	14.3	Transport hazard class(es): Labels:	Non-applicable Non-applicable			
	14.4		Non-applicable			
	14.5	Marine pollutant:	No			
	14.6		X 1			
		Special regulations: EmS Codes:	Non-applicable			
		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:				
	\A/:+l	ard to IATA/ICAO 2023:				

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SECTION 14:	SECTION 14: TRANSPORT INFORMATION (continued)					
14.1 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	Non-applicable Non-applicable Non-applicable Non-applicable Non-applicable No				
14.7	Physico-Chemical properties: Transport in bulk according to Annex II of Marpol and the IBC Code:	see section 9 Non-applicable				
SECTION 15: REGULATORY INFORMATION 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture: - Substances listed in UK candidate list of substances of very high concern (SVHCs): Non-applicable - Substances listed in UK REACH Authorisation List (Annex 14): Non-applicable						
etc): Non-appli	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	SECTION 16: OTHER INFORMATION (continued)						
IMDG: Internation IATA: Internation ICAO: Internation ICAO: Internation BOD5: 5day bion BCF: Bioconce LD50: Lethal D LC50: Lethal C EC50: Effective LogPOW: Octa Koc: Partition of UFI: unique for	oose 50 concentration 50 e concentration 50 anolwater partition coefficient coefficient of organic carbon	Il carriage of dangerous goo	ıds by road				

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at UK, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -