

Safety data sheet According to UK REACH

# **AMPure XP Beads / SPRI Beads**

Printing	: 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
1.4	Phone: +44 (0)845 034 7900 - Fax: +44 (0)845 034 7901 http://www.nanoporetech.com/ Emergency telephone number: +44 (0)845 034 7900 (9am-5:30pm GMT)
	Phone: +44 (0)845 034 7900 - Fax: +44 (0)845 034 7901 http://www.nanoporetech.com/
SEC	Phone: +44 (0)845 034 7900 - Fax: +44 (0)845 034 7901 http://www.nanoporetech.com/ Emergency telephone number: +44 (0)845 034 7900 (9am-5:30pm GMT)
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SEC	Phone: +44 (0)845 034 7900 - Fax: +44 (0)845 034 7901 http://www.nanoporetech.com/ Emergency telephone number: +44 (0)845 034 7900 (9am-5:30pm GMT) CION 2: HAZARDS IDENTIFICATION Classification of the substance or mixture: GB CLP Regulation:
SEC 2.1	Phone: +44 (0)845 034 7900 - Fax: +44 (0)845 034 7901 http://www.nanoporetech.com/ Emergency telephone number: +44 (0)845 034 7900 (9am-5:30pm GMT) CTION 2: HAZARDS IDENTIFICATION Classification of the substance or mixture: GB CLP Regulation: The product is not classified as hazardous according to GB CLP Regulation.
SEC 2.1	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) Classification of the substance or mixture: GB CLP Regulation: The product is not classified as hazardous according to GB CLP Regulation. Label elements:
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SEC 2.1	Phone: +44 (0)845 034 7900 - Fax: +44 (0)845 034 7901 http://www.nanoporetech.com/ Emergency telephone number: +44 (0)845 034 7900 (9am-5:30pm GMT) Classification of the substance or mixture: GB CLP Regulation: The product is not classified as hazardous according to GB CLP Regulation. Label elements: GB CLP Regulation: Hazard statements: Non-applicable
SEC 2.1	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) Classification of the substance or mixture: GB CLP Regulation: The product is not classified as hazardous according to GB CLP Regulation. Label elements: GB CLP Regulation: Hazard statements: Non-applicable Precautionary statements: P101: If medical advice is needed, have product container or label at hand. P102: Keep out of reach of children.

# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

# 3.1 Substance:

Non-applicable

# 3.2 Mixture:

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

# Components:

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

# SECTION 4: FIRST AID MEASURES

# 4.1 Description of first aid measures:

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

# By inhalation:

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

# By skin contact:

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



# Printing: 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.

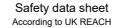
# SECTION 7: HANDLING AND STORAGE

# 7.1 Precautions for safe handling:

A.- General precautions for safe use



	Comply with the	G AND STORAGE (continued) current legislation concerning the preven leanliness and dispose of using safe met	tion of industrial risks with regards manually handling weights. hods (section 6).		
	It is recommende	mendations for the prevention of fires an ed to transfer at a slow speed to avoid the It section 10 for conditions and materials	e creation of electrostatic charges that could affect flammable		
	•	mendations on general occupational hyg			
	Do not eat or drir	nk during the process, washing hands aft	erwards with suitable cleaning products.		
	D Technical recom	mendations to prevent environmental risl	KS		
It is not necessary to take special measures to prevent environmental risks. For more information see subsectio					
<b>.</b> 2	Conditions for safe	storage, including any incompatibiliti	es:		
	A Technical measu	ires for storage			
	Maximum time:	12 Months			
	B General condition	ns for storage			
	Avoid sources of	heat, radiation, static electricity and con	tact with food. For additional information see subsection 10.5		
7.3	Specific end use(s)	:			
	Except for the instruct product.	ctions already specified it is not necessar	y to provide any special recommendation regarding the uses of this		
SEC	TION 8: EXPOSU	RE CONTROLS/PERSONAL PRO	TECTION		
3.1	Control parameters				
	Substances whose o	occupational exposure limits have to be n	nonitored in the workplace:		
	There are no applica	ble occupational exposure limits for the s	substances contained in the product		
3.2	Exposure controls:				
	A Individual 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="">&gt;. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal. B Respiratory protection</ukca>				
	The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.				
	C Specific protection	on for the hands			
	Pictogram	PPE	Remarks		
	Mandatory hand	Chemical protective gloves	Replace the gloves at any sign of deterioration.		
	As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance v total reliability and has therefore to be checked prior to the application. D Eye and face protection				
	Pictogram	PPE	Remarks		
	Mandatory face	Panoramic glasses against splash/projections.	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.		
	E Body protection	1	I		
	,				



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# **AMPure XP Beads / SPRI Beads**

TION 8: EXPOSURE CONTROLS/PERS	DNAL PROTECTION (continued)
Pictogram PPE	Remarks
Work clothing	Replace before any evidence of deterioration. For periods of prolonged exp to the product for professional/industrial users CE III is recommended, accordance with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, E 13688:2013, EN 464:1994.
F Additional emergency measures	
It is not necessary to take additional emerge	ncy measures.
Environmental exposure controls:	
In accordance with the community legislation fo spillage of both the product and its container. Fo	r the protection of the environment it is recommended to avoid environmenta or additional information see subsection 7.1.D
TION 9: PHYSICAL AND CHEMICAL PRO	OPERTIES
Information on basic physical and chemical	properties:
For complete information see the product datas	heet.
Appearance:	
Physical state at 20 °C:	Liquid
Appearance:	Colorless
Colour:	Not available
Odour:	Not available
Odour threshold:	Non-applicable *
Volatility:	
Boiling point at atmospheric pressure:	100 °C
Vapour pressure at 20 ºC:	2350 Pa
Vapour pressure at 50 °C:	12381.01 Pa (12.38 kPa)
Evaporation rate at 20 °C:	Non-applicable *
Product description:	
Density at 20 °C:	1032.6 kg/m³
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 ºC)
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 PROP	ERTIES (continued)
	Upper flammab	ility limit:	Non-applicable *
Particle characte		teristics:	
	Median equivale	ent diameter:	Non-applicable
9.2	Other informat	ion:	
	Information wi	th regard to physical hazard class	ses:
	Explosive prope	erties:	Non-applicable *
	Oxidising prope	rties:	Non-applicable *
	Corrosive to me	etals:	Non-applicable *
	Heat of combus	tion:	Non-applicable *
	Aerosols-total p components:	ercentage (by mass) of flammable	Non-applicable *
	Other safety cl	naracteristics:	
	Surface tension	at 20 °C:	Non-applicable *
	Refraction index	K:	Non-applicable *
	*Not relevant due te	o the nature of the product, not providing inf	formation property of its hazards.

# SECTION 10: STABILITY AND REACTIVITY

# 10.1 Reactivity:

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

# 10.2 Chemical stability:

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

# 10.3 Possibility of hazardous reactions:

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

# 10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

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

# 10.5 Incompatible materials:

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

# 10.6 Hazardous decomposition products:

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

# SECTION 11: TOXICOLOGICAL INFORMATION

# 11.1 Information on toxicological effects:

LD50 oral > 2000 mg/kg (rat)

# Dangerous health implications:

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

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



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SECTION 11: TOX	ICOLOGICAL INFORMATION (co	ntinued)	
- Corrosivit	icity :Based on available data, the class y/Irritability: Based on available data, the h the skin and the eyes (acute effect):		net
<ul> <li>Contact v</li> </ul>	vith the skin: Based on available data, the vith the eyes: Based on available data, th s (carcinogenicity, mutagenicity and toxic	e classification criteria are not	
IARC: Nor - Mutageni	enicity: Based on available data, the clas n-applicable city: Based on available data, the classif tive toxicity: Based on available data, the effects:	cation criteria are not met	net
- Skin: Bas	ry: Based on available data, the classific ed on available data, the classification c get organ toxicity (STOT) - single exposu	iteria are not met	
Based on av	vailable data, the classification criteria an	e not met	
G- Specific targ	et organ toxicity (STOT)-repeated expos	sure:	
- Skin: Bas	arget organ toxicity (STOT)-repeated exp ed on available data, the classification c or this effect. For more information see s azard:	iteria are not met, as it does no	
Based on av	vailable data, the classification criteria ar	e 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 (Calculation	on method)	Non-applicable

OFOTION 10 FC	
SECTION 12: EC	

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

# Type of waste:

Non-applicable

## Waste management (disposal and evaluation):

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

# Regulations related to waste management:

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

UK legislation: The Waste Regulations 2011.

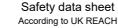
# SECTION 14: TRANSPORT INFORMATION

# Other information:

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

With regard to ADR 2021 and RID 2021:

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



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# AMPure XP Beads / SPRI Beads

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

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

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

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

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

Non-applicable

# Specific provisions in terms of protecting people or the environment:

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

# Other legislation:

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

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

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

EH40/2005 Workplace exposure limits.

# SECTION 16: OTHER INFORMATION

# Legislation related to safety data sheets:

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

# Texts of the legislative phrases mentioned in section 3:

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

GB CLP Regulation:

Non-applicable

Classification procedure:

Non-applicable

Advice related to training:

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

Principal bibliographical sources:

http://echa.europa.eu

http://eur-lex.europa.eu

Abbreviations and acronyms:



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SECTION 16: OTHER INFORMATION (continued)
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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: 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	TION 2: HAZARDS IDENTIFICATION

Label elements:

2.2

# GB CLP Regulation:

# Hazard statements:

# Non-applicable

# Precautionary statements:

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

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



	Comply with the Maintain order, c	G AND STORAGE (continued) current legislation concerning the preven 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 It section 10 for conditions and materials mendations on general occupational hyg	
	Do not eat or drir	nk during the process, washing hands aft	erwards with suitable cleaning products.
	D Technical recom	mendations to prevent environmental risl	<s and="" and<="" constraints="" td=""></s>
	It is not necessa	y to take special measures to prevent er	vironmental risks. For more information see subsection 6.2
7.2	Conditions for safe	storage, including any incompatibilit	es:
	A Technical measu	ires for storage	
	Maximum time:	12 Months	
	B General condition	ns for storage	
	Avoid sources of	heat, radiation, static electricity and con	tact with food. For additional information see subsection 10.5
7.3	Specific end use(s)	:	
	Except for the instru- product.	ctions already specified it is not necessa	ry to provide any special recommendation regarding the uses of this
SEC	TION 8: EXPOSUR	RE CONTROLS/PERSONAL PRO	TECTION
8.1	Control parameters	:	
	-	occupational exposure limits have to be n	nonitored in the workplace:
		ble occupational exposure limits for the	
3.2	Exposure controls:		
A Individual protection measures, such as personal protective equipment		ve equipment	
	marking>>. For r protection,…) co information conta	nore information on Personal Protective nsult the information leaflet provided by t ained herein is a recommendation which hether the company has additional meas	ic Personal Protective Equipment, with the corresponding < <ukca Equipment (storage, use, cleaning, maintenance, class of he manufacturer. For more information see subsection 7.1. All needs some specification from the labour risk prevention services as ures at its disposal.</ukca 
	The use of prote	ction equipment will be necessary if a mis	st forms or if the occupational exposure limits are exceeded.
	C Specific protection	on for the hands	
	Pictogram	PPE	Remarks
	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.
	E Body protection	1	L



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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-			

## F.- Additional emergency measures

It is not necessary to take additional emergency measures.

# Environmental exposure controls:

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

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

# 9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:	
Physical state at 20 °C:	Liquid
Appearance:	Colorless
Colour:	Colourless
Odour:	Odourless
Odour threshold:	Non-applicable *
Volatility:	
Boiling point at atmospheric pressure:	100 °C
Vapour pressure at 20 °C:	2350 Pa
Vapour pressure at 50 °C:	12381.01 Pa (12.38 kPa)
Evaporation rate at 20 °C:	Non-applicable *
Product description:	
Density at 20 °C:	1032.2 kg/m <sup>3</sup>
Relative density at 20 °C:	1.032
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 ºC:	Non-applicable *
Partition coefficient n-octanol/water 20 °C:	Non-applicable *
Solubility in water at 20 °C:	Non-applicable *
Solubility properties:	Completely miscible
Decomposition temperature:	Non-applicable *
Melting point/freezing point:	Non-applicable *
Flammability:	
Flash Point:	Non Flammable (>60 °C)
Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	Non-applicable *
Lower flammability limit:	Non-applicable *
*Not relevant due to the nature of the product, not providing	information property of its hazards.



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SEC	TION 9: PHYSICAL	AND CHEMICAL PROPER	RTIES (continued)
	Upper flammability lin	nit:	Non-applicable *
	Particle characterist	ics:	
	Median equivalent dia	ameter:	Non-applicable
9.2	Other information:		
	Information with reg	ard to physical hazard classes	S:
	Explosive properties:		Non-applicable *
	Oxidising properties:		Non-applicable *
	Corrosive to metals:		Non-applicable *
	Heat of combustion:		Non-applicable *
	Aerosols-total percent components:	tage (by mass) of flammable	Non-applicable *
	Other safety charact	teristics:	
	Surface tension at 20	°C:	Non-applicable *
	Refraction index:		Non-applicable *
	*Not relevant due to the na	ature 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):



ng: 15/09/2023 Date of compilatio	n: 14/03/2022	Version: 1	
ECTION 11: TOXICOLOGICAL INF	ORMATION (c	ontinued)	
<ul> <li>Acute toxicity : Based on ava</li> <li>Corrosivity/Irritability: Based o</li> <li>C- Contact with the skin and the eye</li> </ul>	on available data, t		met
<ul> <li>Contact with the skin: Based of Contact with the eyes: Based</li> <li>CMR effects (carcinogenicity, module)</li> </ul>	on available data,	the classification criteria are no	
<ul> <li>Carcinogenicity: Based on availance: Non-applicable</li> <li>Mutagenicity: Based on availa</li> <li>Reproductive toxicity: Based on E- Sensitizing effects:</li> </ul>	able data, the class	ification criteria are not met	
<ul> <li>Respiratory: Based on available</li> <li>Skin: Based on available data</li> <li>F- Specific target organ toxicity (ST</li> </ul>	, the classification	criteria are not met	
Based on available data, the clas	ssification criteria a	are not met	
G- Specific target organ toxicity (ST	OT)-repeated exp	osure:	
	, the classification	criteria are not met, as it does	ata, the classification criteria are not met not contain substances classified as
Based on available data, the cla	ssification criteria a	are not met	
Other information:			
Non-applicable			
Specific toxicology information of	n the substances	:	
Not available			
Acute Toxicity Estimate (ATE mix	):		
	ATE mix		Ingredient(s) of unknown toxicity
Oral	>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

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



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

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

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

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

Non-applicable

# Specific provisions in terms of protecting people or the environment:

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

# Other legislation:

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

Regulations 2020.

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

EH40/2005 Workplace exposure limits.

# SECTION 16: OTHER INFORMATION

# Legislation related to safety data sheets:

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

# Texts of the legislative phrases mentioned in section 3:

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

GB CLP Regulation:

Non-applicable

Classification procedure:

Non-applicable

Advice related to training:

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

Principal bibliographical sources:

http://echa.europa.eu

http://eur-lex.europa.eu

Abbreviations and acronyms:



Safety data sheet According to UK REACH

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# SECTION 16: OTHER INFORMATION (continued)

ADR: European agreement concerning the international carriage of dangerous goods by road IMDG: International maritime dangerous goods code IATA: International Air Transport Association ICAO: International Civil Aviation Organisation COD: Chemical Oxygen Demand BOD5: 5day biochemical oxygen demand BCF: Bioconcentration factor LD50: Lethal Dose 50 LC50: Lethal Concentration 50 EC50: Effective concentration 50 LC50: Lethal Concentration 50 LOgPOW: Octanolwater partition coefficient Koc: Partition coefficient of organic carbon UFI: unique formula identifier IARC: International Agency for Research on Cancer

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

Date of compilation: 02/06/2023

# EDTA

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

NANOPORE

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# 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

# 3.1 Substance:

Non-applicable

# 3.2 Mixture:

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

# Components:

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

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

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

# SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

# **EDTA**

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# SECTION 4: FIRST AID MEASURES (continued)

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

# By inhalation:

NANOPORE

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

# By skin contact:

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

# By eve contact:

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

# By ingestion/aspiration:

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

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

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

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

Non-applicable

# **SECTION 5: FIREFIGHTING MEASURES**

#### 5.1 Extinguishing media:

## Suitable extinguishing media:

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

# Unsuitable extinguishing media:

Non-applicable

#### 5.2 Special hazards arising from the substance or mixture:

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

#### 5.3 Advice for firefighters:

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

# Additional provisions:

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

# SECTION 6: ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures: 6.1

## For non-emergency personnel:

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

# For emergency responders:

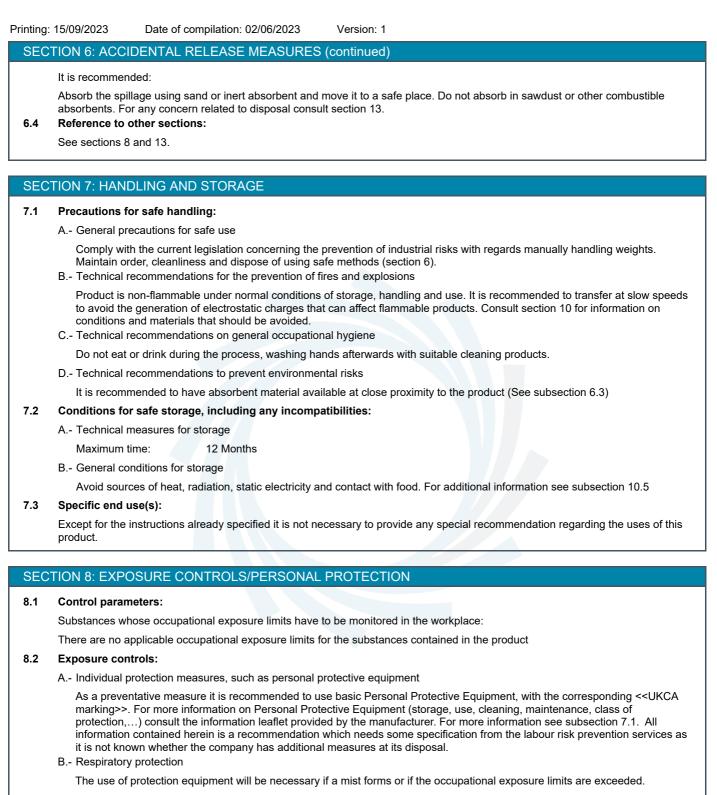
Wear protective equipment. Keep unprotected persons away. See section 8.

#### 6.2 **Environmental precautions:**

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

#### 6.3 Methods and material for containment and cleaning up:

# EDTA



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.
	a mixture of several substances, the res thas therefore to be checked prior to the	istance of the glove material can not be calculated in advance with e application.

Safety data sheet According to UK REACH

# EDTA

<u> </u>	of compilation: 02/06/2023 Ve	rsion: 1	
D Eye and face protec	tion		
Pictogram	PPE	F	Remarks
Mandatory face protection	anoramic glasses against splash/projections.		according to the manufacturer's instructions a risk of splashing.
E Body protection			
Pictogram	PPE	F	Remarks
	Work clothing	to the product for professional/in accordance with the regulations in EN	rioration. For periods of prolonged exposu dustrial users CE III is recommended, in I ISO 6529:2013, EN ISO 6530:2005, EN I 13, EN 464:1994.
F Additional emergend	cy measures		
Emergency measu	re Standards	Emergency measure	Standards
Emergency showe	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2 er	011 Eyewash stations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
Environmental exposu			
	community legislation for the protecti duct and its container. For additional		
Information on basic p	ND CHEMICAL PROPERTIES		
Information on basic p For complete informatio Appearance:	ohysical and chemical properties: n see the product datasheet.		
Information on basic p For complete informatio Appearance: Physical state at 20 °C:	o <b>hysical and chemical properties:</b> n see the product datasheet. Liqu		
Information on basic p For complete informatio Appearance: Physical state at 20 °C: Appearance:	ohysical and chemical properties: n see the product datasheet. Liqu Col	uid priless	
Information on basic p For complete informatio Appearance: Physical state at 20 °C:	o <b>hysical and chemical properties:</b> n see the product datasheet. Liqu Col	iid	
Information on basic p For complete informatio Appearance: Physical state at 20 °C: Appearance: Colour:	o <b>hysical and chemical properties:</b> n see the product datasheet. Liqu Col Not Not	iid orless available	
Information on basic p For complete informatio Appearance: Physical state at 20 °C: Appearance: Colour: Odour:	o <b>hysical and chemical properties:</b> n see the product datasheet. Liqu Col Not Not	lid orless available available	
Information on basic p For complete informatio Appearance: Physical state at 20 °C: Appearance: Colour: Odour: Odour threshold:	o <b>hysical and chemical properties:</b> n see the product datasheet. Liqu Col Not Not Not	iid orless available available n-applicable *	
Information on basic p For complete informatio Appearance: Physical state at 20 °C: Appearance: Colour: Odour: Odour: Odour threshold: Volatility:	ohysical and chemical properties: n see the product datasheet. Liqu Col Not Not Nor neric pressure: 100	iid orless available available n-applicable *	
Information on basic p For complete informatio Appearance: Physical state at 20 °C: Appearance: Colour: Odour: Odour: Odour threshold: Volatility: Boiling point at atmosph	ohysical and chemical properties: n see the product datasheet. Liqu Col Not Not Nor neric pressure: 100 'C: 235	uid orless available available h-applicable *	
Information on basic p For complete information Appearance: Physical state at 20 °C: Appearance: Colour: Odour: Odour threshold: Volatility: Boiling point at atmosph Vapour pressure at 20 °	ohysical and chemical properties: n see the product datasheet. Liqu Col Not Not Not Nor Nor C: 235 C: 123	uid orless available available n-applicable * °C 0 Pa	
Information on basic p For complete information Appearance: Physical state at 20 °C: Appearance: Colour: Odour: Odour: Odour threshold: Volatility: Boiling point at atmosph Vapour pressure at 20 °	ohysical and chemical properties: n see the product datasheet. Liqu Col Not Not Not Nor Nor C: 235 C: 123	uid orless available available h-applicable * °C 0 Pa 81.01 Pa (12.38 kPa)	
Information on basic p For complete information Appearance: Physical state at 20 °C: Appearance: Colour: Odour: Odour threshold: Volatility: Boiling point at atmosph Vapour pressure at 20 ° Vapour pressure at 50 ° Evaporation rate at 20 °	bhysical and chemical properties: n see the product datasheet. Liqu Col Not Not Nor neric pressure: 100 'C: 235 'C: 123 C: Nor	uid orless available available h-applicable * °C 0 Pa 81.01 Pa (12.38 kPa)	
Information on basic p For complete information Appearance: Physical state at 20 °C: Appearance: Colour: Odour threshold: Volatility: Boiling point at atmosph Vapour pressure at 20 ° Vapour pressure at 20 ° Evaporation rate at 20 °	ohysical and chemical properties: n see the product datasheet. Liqu Col Not Not Nor neric pressure: 100 'C: 235 'C: 123 C: Nor 101	uid orless available available -applicable * °C 0 Pa 81.01 Pa (12.38 kPa) -applicable * 7.1 kg/m³	
Information on basic p For complete information Appearance: Physical state at 20 °C: Appearance: Colour: Odour: Odour threshold: Volatility: Boiling point at atmosph Vapour pressure at 20 ° Vapour pressure at 50 ° Evaporation rate at 20 ° Product description: Density at 20 °C:	bhysical and chemical properties: n see the product datasheet. Liqu Col Not Not Not Nor C: 123 C: Nor 101 C: 1.01	uid orless available available -applicable * °C 0 Pa 81.01 Pa (12.38 kPa) -applicable * 7.1 kg/m³	
Information on basic p For complete information Appearance: Physical state at 20 °C: Appearance: Colour: Odour: Odour threshold: Volatility: Boiling point at atmosph Vapour pressure at 20 ° Vapour pressure at 20 ° Evaporation rate at 20 ° <b>Product description:</b> Density at 20 °C: Relative density at 20 °C	bhysical and chemical properties: n see the product datasheet. Liqu Col Not Not Not Not Not C: 235 C: 235 C: 123 C: Nor 101 C: 1.0 <sup>-</sup> °C: 1.2 <sup>-</sup>	uid orless available avail	
Information on basic p For complete information Appearance: Physical state at 20 °C: Appearance: Colour: Odour threshold: Volatility: Boiling point at atmosph Vapour pressure at 20 ° Vapour pressure at 20 ° Vapour pressure at 20 ° Froduct description: Density at 20 °C: Relative density at 20 °C	bhysical and chemical properties: n see the product datasheet. Liqu Col Not Not Not Not C: C: 100 C: 101 C: 101 C: 102 0°C: 113	uid orless available available h-applicable * °C 0 Pa 81.01 Pa (12.38 kPa) h-applicable * 7.1 kg/m <sup>3</sup> 17	
Information on basic p For complete information Appearance: Physical state at 20 °C: Appearance: Colour: Odour: Odour threshold: Volatility: Boiling point at atmosph Vapour pressure at 20 ° Vapour pressure at 20 ° Evaporation rate at 20 ° Product description: Density at 20 °C: Relative density at 20 °C Dynamic viscosity at 20	bhysical and chemical properties: n see the product datasheet. Liqu Col Not Not Not Nor neric pressure: 100 'C: 235 'C: 123 C: 101 C: 1.01 °C: 1.21 0 °C: 1.15 0 °C: 1.15	uid orless available available -applicable * °C 0 Pa 81.01 Pa (12.38 kPa) a-applicable * 7.1 kg/m <sup>3</sup> 17 1 cP 9 mm <sup>2</sup> /s	
Information on basic p For complete information Appearance: Physical state at 20 °C: Appearance: Colour: Odour: Odour threshold: Volatility: Boiling point at atmosph Vapour pressure at 20 ° Vapour pressure at 20 ° Vapour pressure at 20 ° Evaporation rate at 20 ° Product description: Density at 20 °C: Relative density at 20 °C Dynamic viscosity at 20 °C	bhysical and chemical properties: n see the product datasheet. Liqu Col Not Not Not Not C: 235 C: 100 C: 235 C: 101 C: 101 C: 101 C: 1.01 °C: 1.22 0 °C: 1.15 0 °C: Nor Nor	uid orless available available available available available available available available * °C 0 Pa 81.01 Pa (12.38 kPa) available * 7.1 kg/m³ 17 1 cP 2 mm²/s available *	
Information on basic p For complete information Appearance: Physical state at 20 °C: Appearance: Colour: Odour: Odour threshold: Volatility: Boiling point at atmosph Vapour pressure at 20 ° Vapour pressure at 20 ° Vapour pressure at 20 ° Evaporation rate at 20 ° Product description: Density at 20 °C: Relative density at 20 °C Dynamic viscosity at 20 Kinematic viscosity at 20 Kinematic viscosity at 40	bhysical and chemical properties: n see the product datasheet. Liqu Col Not Not Not Not Col Ci Ci Ci Ci Ci Ci Ci Ci Ci Ci	hid porless available available -applicable * °C 0 Pa 81.01 Pa (12.38 kPa) -applicable * 7.1 kg/m³ 17 1 cP 0 mm²/s a-applicable * a-applicable *	

- CONTINUED ON NEXT PAGE -

NANOPORE.

Safety data sheet According to UK REACH

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**EDTA** 

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SECT	TION 9: PHYSICAL AND CHEMICAL PROPER	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 classes	5:
	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 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:

	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

**NANOPORE** 

# EDTA

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	ION 11: TOXICOLOGICAL INFORMATION (continued)					
I	Information on toxicological effects:					
	The experimental information related to the toxicological properties of the product itself is not available					
I	Dangerous health implications:					
i	In case of exposure that is repetitive, prolonged or at concentrations higher adverse effects on health may result, depending on the means of exposure A- Ingestion (acute effect):		ended occupational exp	oosure limit		
	<ul> <li>Acute toxicity : Based on available data, the classification criteria are as hazardous for consumption. For more information see section 3</li> <li>Corrosivity/Irritability: Based on available data, the classification criteria classified as hazardous for this effect. For more information see section</li> <li>B- Inhalation (acute effect):</li> </ul>	eria are not met, as				
	<ul> <li>Acute toxicity : Based on available data, the classification criteria are as hazardous for inhalation. For more information see section 3.</li> <li>Corrosivity/Irritability: Based on available data, the classification criteric classified as hazardous for this effect. For more information see section</li> <li>Contact with the skin and the eyes (acute effect):</li> </ul>	eria are not met, as				
	<ul> <li>C- Contact with the skin and the eyes (acute effect):</li> <li>Contact with the skin: Based on available data, the classification criteria are not met, as it does not control classified as hazardous for skin contact. For more information see section 3.</li> <li>Contact with the eyes: Based on available data, the classification criteria are not met. However, it does classified as hazardous for this effect. For more information see section 3.</li> <li>CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):</li> </ul>					
<ul> <li>Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain a sa hazardous for the effects mentioned. For more information see section 3.</li> <li>IARC: Non-applicable</li> <li>Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain sub hazardous for this effect. For more information see section 3.</li> <li>Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain sub hazardous for this effect. For more information see section 3.</li> <li>Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not conclassified as hazardous for this effect. For more information see section 3.</li> <li>Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not conclassified as hazardous for this effect. For more information see section 3.</li> <li>E- Sensitizing effects:</li> </ul>						
	<ul> <li>Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.</li> <li>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.</li> <li>F- Specific target organ toxicity (STOT) - single exposure:</li> </ul>					
	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.					
	<ul> <li>G- Specific target organ toxicity (STOT)-repeated exposure:</li> <li>Specific target organ toxicity (STOT)-repeated exposure: Based on a it does not contain substances classified as hazardous for this effect. F</li> <li>Skin: Based on available data, the classification criteria are not met, hazardous for this effect. For more information see section 3.</li> <li>H- Aspiration hazard:</li> </ul>	or more informatio	n see section 3.			
	Based on available data, the classification criteria are not met, as it doe this effect. For more information see section 3. <b>Other information:</b>	es not contain subs	stances classified as ha	zardous foi		
I	Non-applicable					
:	Specific toxicology information on the substances:					
	Identification	Acu	ite toxicity	Genus		
	edetic acid	LD50 oral	2581 mg/kg	Rat		
	CAS: 60-00-4	LD50 dermal	Non-applicable			
		LC50 inhalation	Non-applicable			
			Non-applicable			

# EDTA

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		TM .

 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:

# Acute toxicity:

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

Chronic toxicity:

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

# 12.2 Persistence and degradability:

Not available

# 12.3 Bioaccumulative potential:

# Substance-specific information:

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

# 12.4 Mobility in soil:

Identification	Absorption/desorption		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:

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

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

# SECTION 15: REGULATORY INFORMATION

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

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# SECTION 15: REGULATORY INFORMATION (continued)

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

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

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

Non-applicable

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## Specific provisions in terms of protecting people or the environment:

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

# Other legislation:

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

# **SECTION 16: OTHER INFORMATION**

## Legislation related to safety data sheets:

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

## Texts of the legislative phrases mentioned in section 3:

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

# GB CLP Regulation:

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

Classification procedure:

Non-applicable

## Advice related to training:

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

Principal bibliographical sources:

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

Abbreviations and acronyms:

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

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

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

BCF: Bioconcentration factor

LD50: Lethal Dose 50 LC50: Lethal Concentration 50

EC50: Effective concentration 50

LogPOW: Octanolwater partition coefficient

Koc: Partition coefficient of organic carbon

UFI: unique formula identifier

IARC: International Agency for Research on Cancer

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



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SEC	TION 1: IDENTIF	FICATION OF THE SUBSTANCE/MIXTURE AND OF THE CO	OMPANY/UNDERTAKING	
1.1	Product identifier	r: Elution Buffer		
	Other means of id	dentification:		
	VEB, EB, ELB, VE	ELB		
1.2	Relevant identifie	ed uses of the substance or mixture and uses advised against:		
	Relevant uses: Re	esearch use only		
Uses advised against: All uses not specified in this section or in section 7.3				
1.3	3 Details of the supplier of the safety data sheet:			
	OX4 4DQ Oxford -	Edmund Halley Road, Oxford Science Park - Oxon - England 5 034 7900 - Fax: +44 (0)845 034 7901		
1.4	Emergency teleph	ohone number: +44 (0)845 034 7900 (9am-5:30pm GMT)		
SEC	TION 2: HAZARE	DS 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 leanliness and dispose of using safe met mendations for the prevention of fires and				
	It is recommende	ed to transfer at a slow speed to avoid the	e creation of electrostatic charges that could affect flammable			
	C Technical recom	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.					
		mendations to prevent environmental risk				
			vironmental risks. For more information see subsection 6.2			
7.2		e storage, including any incompatibiliti	es:			
	A Technical measu	5				
	Maximum time:	12 Months				
	B General conditio	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 instru product.	ctions already specified it is not necessar	y to provide any special recommendation regarding the uses of this			
SEC		RE CONTROLS/PERSONAL PRO	τεστιομ			
8.1	Control parameters					
		Substances whose occupational exposure limits have to be monitored in the workplace:				
		able occupational exposure limits for the s	substances contained in the product			
8.2	Exposure controls:					
	As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding < <ukca marking="">&gt;. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal. B Respiratory protection</ukca>					
	The use of prote	ction equipment will be necessary if a mis	st forms or if the occupational exposure limits are exceeded.			
	C Specific protection	on for the hands				
	Pictogram	PPE	Remarks			
	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.			
		1	I			
	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 - 1	Additional emerge	ncy measures	

## F.- Additional emergency measures

It is not necessary to take additional emergency measures.

# Environmental exposure controls:

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

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

# 9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:	
Physical state at 20 °C:	Liquid
Appearance:	Colorless
Colour:	Not available
Odour:	Not available
Odour threshold:	Non-applicable *
Volatility:	
Boiling point at atmospheric pressure:	100 °C
Vapour pressure at 20 °C:	2350 Pa
Vapour pressure at 50 °C:	12381.01 Pa (12.38 kPa)
Evaporation rate at 20 °C:	Non-applicable *
Product description:	
Density at 20 °C:	1034 kg/m³
Relative density at 20 °C:	1.034
Dynamic viscosity at 20 °C:	Non-applicable *
Kinematic viscosity at 20 °C:	Non-applicable *
Kinematic viscosity at 40 °C:	Non-applicable *
Concentration:	Non-applicable *
pH:	Non-applicable *
Vapour density at 20 °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 *



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SEC	TION 9: PHYS	SICAL AND CHEMICAL PROPE	RTIES (continued)
Upper flammability limit:		ility limit:	Non-applicable *
	Particle charac	cteristics:	
	Median equival	ent diameter:	Non-applicable
9.2	Other informat	tion:	
	Information with regard to physical hazard classes:		s:
	Explosive prope	erties:	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 tensior	n at 20 °C:	Non-applicable *
	Refraction inde	<b>x</b> :	Non-applicable *
	*Not relevant due t	to the nature of the product, not providing inform	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):



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TION 11: TOXIC	OLOGICAL INFORMATION (co	ontinued)	
<ul> <li>Corrosivity/</li> </ul>	ty :Based on available data, the clas Irritability: Based on available data, th ne skin and the eyes (acute effect):		t met
<ul> <li>Contact with</li> </ul>	h the skin: Based on available data, th h the eyes: Based on available data, t carcinogenicity, mutagenicity and toxi	the classification criteria are n	
IARC: Non-a - Mutagenicit	y: Based on available data, the classi ve toxicity: Based on available data, th	fication criteria are not met	
- Skin: Based	: Based on available data, the classifi d on available data, the classification o : organ toxicity (STOT) - single expose	criteria are not met	
Based on avai	lable data, the classification criteria a	re not met	
G- Specific target	organ toxicity (STOT)-repeated expo	sure:	
- Skin: Based hazardous for H- Aspiration haz	on available data, the classification of this effect. For more information see	criteria are not met, as it does section 3.	ata, the classification criteria are not met not contain substances classified as
Other informatio	n:		
Non-applicable			
Specific toxicolo	gy information on the substances:		
Not available			
Acute Toxicity E	stimate (ATE mix):		
	ATE mix		Ingredient(s) of unknown toxicity
Oral	>5000 mg/kg (Calculat	tion method)	Non-applicable
Dermal	>5000 mg/kg (Calculat		Non-applicable
	0.01		

Non-applicable

# SECTION 12: ECOLOGICAL INFORMATION

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

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

# 12.1 Toxicity:

Not available

Inhalation

12.2 Persistence and degradability:

Not available

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

Not available

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

# 12.6 Other adverse effects:

Not described



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# SECTION 13: DISPOSAL CONSIDERATIONS

# 13.1 Waste treatment methods:

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

# Type of waste:

Non-applicable

## Waste management (disposal and evaluation):

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

# Regulations related to waste management:

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

UK legislation: The Waste Regulations 2011.

# SECTION 14: TRANSPORT INFORMATION

# Other information:

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

With regard to ADR 2021 and RID 2021:

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:			
Transport 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		
14.2 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):	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	

# 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:



# 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 Dose 50 LC50: Lethal Concentration 50 EC50: Effective concentration 50 LogPOW: Octanolwater partition coefficient Koc: Partition coefficient of organic carbon UFI: unique formula identifier IARC: International Agency for Research on Cancer

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



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

## 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



## Flow Cell Flush

SEC	TION 7: HANDLIN	IG AND STORAGE (continued)		
	Maintain order,	e current legislation concerning the preven cleanliness and dispose of using safe met nmendations 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			
	It is not necessa	ary to take special measures to prevent en	vironmental risks. For more information see subsection 6.2	
.2		e storage, including any incompatibiliti		
	A Technical meas			
	Maximum time:	12 Months		
	B General condition	ons for storage		
	Avoid sources c	of heat, radiation, static electricity and cont	tact with food. For additional information see subsection 10.5	
.3	Specific end use(s	5):		
	Except for the instruproduct.	uctions already specified it is not necessar	ry to provide any special recommendation regarding the uses of this	
SEC	TION 8: EXPOSU	RE CONTROLS/PERSONAL PRO	TECTION	
6.1	Control parameter	s:		
	Substances whose	occupational exposure limits have to be n	nonitored in the workplace:	
	There are no applic	able occupational exposure limits for the s	substances contained in the product	
3.2	Exposure controls	:		
	A Individual protect	ction 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="">&gt;. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal. B Respiratory protection</ukca>			
	The use of prote	ection equipment will be necessary if a mis	st forms or if the occupational exposure limits are exceeded.	
	C Specific protecti	on for the hands		
	Pictogram	PPE	Remarks	
	Mandatory hand protection	Chemical protective gloves	Replace the gloves at any sign of deterioration.	
	As the product i	nd has therefore to be checked prior to the	I istance of the glove material can not be calculated in advance with e application.	
	Pictogram	PPE	Remarks	
	Mandatory face protection	Panoramic glasses against splash/projections.	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.	
	E Body protection	1	1	



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SECTION 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:	1068.5 kg/m³
Relative density at 20 °C:	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	ation property of its hazards.



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SEC	TION 9: PHYS	ICAL AND CHEMICAL PROPE	ERTIES (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 class	es:
	Explosive properties:		Non-applicable *
	Oxidising prope	rties:	Non-applicable *
	Corrosive to metals:		Non-applicable *
	Heat of combustion:		Non-applicable *
	Aerosols-total p components:	ercentage (by mass) of flammable	Non-applicable *
	Other safety 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: 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):		
- Contac	t with the skin: Based on available data, t with the eyes: Based on available data, cts (carcinogenicity, mutagenicity and to	the classification criteria are	
IARC: N - Mutage	ogenicity: Based on available data, the cl lon-applicable nicity: Based on available data, the class uctive toxicity: Based on available data, g effects:	sification criteria are not met	t
- Skin: B	atory: Based on available data, the classi ased on available data, the classification arget organ toxicity (STOT) - single expos	criteria are not met	
Based on	available data, the classification criteria	are not met	
G- Specific ta	arget organ toxicity (STOT)-repeated exp	osure:	
- Skin: B hazardou H- Aspiratior	ased on available data, the classification s for this effect. For more information see	criteria are not met, as it do e section 3.	le data, the classification criteria are not met bes not contain substances classified as
Other inform	ation:		
Non-applicab	e		
	cology information on the substances	:	
Not available			
Acute Tovici	ty Estimate (ATE mix):		
Acute TOXICI	ty Estimate (ATE mix):		Ingredient(s) of unknown toxicity
Oral	>5000 mg/kg (Calcul	ation method)	Non-applicable
Dermal	>5000 mg/kg (Calcul		Non-applicable
	3	,	

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

## SECTION 15: REGULATORY INFORMATION

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

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

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

Non-applicable

#### Specific provisions in terms of protecting people or the environment:

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

#### Other legislation:

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

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

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

EH40/2005 Workplace exposure limits.

## SECTION 16: OTHER INFORMATION

#### Legislation related to safety data sheets:

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

#### Texts of the legislative phrases mentioned in section 3:

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

GB CLP Regulation:

Non-applicable

Classification procedure:

Non-applicable

Advice related to training:

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

Principal bibliographical sources:

http://echa.europa.eu

http://eur-lex.europa.eu

Abbreviations and acronyms:



## **Flow Cell Flush**

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## SECTION 16: OTHER INFORMATION (continued)

ADR: European agreement concerning the international carriage of dangerous goods by road IMDG: International maritime dangerous goods code IATA: International Air Transport Association ICAO: International Civil Aviation Organisation COD: Chemical Oxygen Demand BOD5: 5day biochemical oxygen demand BCF: Bioconcentration factor LD50: Lethal Dose 50 LC50: Lethal Concentration 50 EC50: Effective concentration 50 LogPOW: Octanolwater partition coefficient Koc: Partition coefficient of organic carbon UFI: unique formula identifier IARC: International Agency for Research on Cancer

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



## Flowcell (Flush) Tether / Priming Tether

Printing:	15/09/2023 Date of compilation: 14/03/2022 Version: 1
SEC	TION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1	Product identifier:Flowcell (Flush) Tether / Priming TetherOther means of identification:FLT, PT, FT, FCT
1.2	Relevant identified uses of the substance or mixture and uses advised against: Relevant uses: Research use only Uses advised against: All uses not specified in this section or in section 7.3
1.3	Details of the supplier of the safety data sheet: Oxford Nanopore Technologies Gosling Building, Edmund Halley Road, Oxford Science Park
1.4	OX4 4DQ Oxford - Oxon - England Phone: +44 (0)845 034 7900 - Fax: +44 (0)845 034 7901 http://www.nanoporetech.com/ Emergency telephone number: +44 (0)845 034 7900 (9am-5:30pm GMT)
SEC	TION 2: HAZARDS IDENTIFICATION
2.1	Classification of the substance or mixture: GB CLP Regulation: The product is not classified as hazardous according to GB CLP Regulation.
2.2	Label elements: GB CLP Regulation: Hazard statements:
	Non-applicable Precautionary statements:
	P101: If medical advice is needed, have product container or label at hand. P102: Keep out of reach of children. P501: Dispose of the contents and/or its container using the separate collection system in your municipality.
2.3	Other hazards: Product fails to meet PBT/vPvB criteria
SEC	TION 3: COMPOSITION/INFORMATION ON INGREDIENTS

# 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

Printing:	: 15/09/2023 Date of compilation: 14/03/2022 Version: 1
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

	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	ed to transfer at a slow speed to avoid the t section 10 for conditions and materials mendations on general occupational hyg			
			erwards with suitable cleaning products.		
		mendations to prevent environmental ris			
			vironmental risks. For more information see subsection 6.2		
7.2		storage, including any incompatibilit			
	A Technical measu				
	Maximum time:	12 Months			
	B General condition				
		0	tact with food. For additional information see subsection 10.5		
7.3	Specific end use(s)				
1.5			ry to provide any special recommendation regarding the uses of this		
	product.	clions 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	:			
	Substances whose o	occupational exposure limits have to be n	nonitored in the workplace:		
	There are no applica	ble occupational exposure limits for the	substances contained in the product		
8.2	Exposure controls:				
	A Individual protect	ion measures, such as personal protecti	measures, such as personal protective equipment		
	marking>>. For n protection,…) col information conta	nore information on Personal Protective nsult the information leaflet provided by t ined herein is a recommendation which nether the company has additional meas	ic Personal Protective Equipment, with the corresponding < <ukca Equipment (storage, use, cleaning, maintenance, class of he manufacturer. For more information see subsection 7.1. All needs some specification from the labour risk prevention services as ures at its disposal.</ukca 		
	The use of protect	ction equipment will be necessary if a mis	st forms or if the occupational exposure limits are exceeded.		
	C Specific protection	n for the hands			
	Pictogram	PPE	Remarks		
	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	1			
	E - Body protection				



## Flowcell (Flush) Tether / Priming Tether

CTION 8: EXPOSURE CONTROLS/PERS	SONAL PROTECTION (continued)
Pictogram PPE	Remarks
Work clothing	rg 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 °C:	2350 Pa
Vapour pressure at 50 °C:	12381.01 Pa (12.38 kPa)
Evaporation rate at 20 °C:	Non-applicable *
Product description:	
Density at 20 °C:	1031.9 kg/m <sup>3</sup>
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: Vapour density at 20 ºC:	Non-applicable * Non-applicable *
Partition coefficient n-octanol/water 20 °C:	Non-applicable *
Solubility in water at 20 °C:	Non-applicable *
Solubility properties: Decomposition temperature:	Completely miscible
	Non-applicable * Non-applicable *
Melting point/freezing point:	Inon-applicable
Flammability: Flash Point:	Non Flammable (S60 °C)
	Non Flammable (>60 ºC) Non-applicable *
Flammability (solid, gas):	
Autoignition temperature:	Non-applicable *

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



## Flowcell (Flush) Tether / Priming Tether

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

## SECTION 10: STABILITY AND REACTIVITY

#### 10.1 Reactivity:

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

#### 10.2 Chemical stability:

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

#### 10.3 Possibility of hazardous reactions:

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

#### 10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

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

#### 10.5 Incompatible materials:

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

#### 10.6 Hazardous decomposition products:

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



## Flowcell (Flush) Tether / Priming Tether

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CTION 11: TOX	CICOLOGICAL INFORMATION (C	continued)	
<ul> <li>Corrosivi</li> </ul>	kicity : Based on available data, the cla ty/Irritability: Based on available data, t h the skin and the eyes (acute effect):		
- Contact	with the skin: Based on available data, with the eyes: Based on available data, s (carcinogenicity, mutagenicity and to:	, the classification criteria a	
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:	sification criteria are not m	net
- Skin: Bas	ory: Based on available data, the classi sed on available data, the classification get organ toxicity (STOT) - single expo	n criteria are not met	it
Based on a	vailable data, the classification criteria	are not met	
G- Specific tar	get organ toxicity (STOT)-repeated exp	oosure:	
- Skin: Bas hazardous H- Aspiration h	sed on available data, the classification for this effect. For more information see	n criteria are not met, as it o e section 3.	ble data, the classification criteria are not met does not contain substances classified as
Other informa	tion:		
Non-applicable			
Specific toxico	ology information on the substances	5:	
Not available			
Acute Toxicity	v Estimate (ATE mix):		
, icals i oxiony	ATE mix		Ingredient(s) of unknown toxicity
	ATEIIIX		ingrouterid(e) of an area ingrouping
Oral	>5000 mg/kg (Calcul	lation 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



## Flowcell (Flush) Tether / Priming Tether

# 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 Waste memory diseased and evaluation between the second and evaluation be

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.

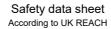
## SECTION 14: TRANSPORT INFORMATION

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





## Flowcell (Flush) Tether / Priming Tether

SECTION 14: TRANSPORT INFORMATION (continued)         14.1       UN number:       Non-applicable         14.2       UN proper shipping name:       Non-applicable         14.3       Transport hazard class(es):       Non-applicable         14.3       Transport hazard class(es):       Non-applicable         14.4       Packing group:       Non-applicable         14.4       Packing group:       Non-applicable         14.5       Environmental hazards:       No         14.6       Special precautions for user       Physico-Chemical properties:         Physico-Chemical properties:       see section 9         14.7       Transport in bulk according to       Non-applicable	D23 Date of compilation: 14/03	Printing: 15/09/2023
14.2       UN proper shipping name:       Non-applicable         14.3       Transport hazard class(es):       Non-applicable         14.4       Packing group:       Non-applicable         14.4       Packing group:       Non-applicable         14.5       Environmental hazards:       No         14.6       Special precautions for user       Physico-Chemical properties:         Physico-Chemical properties:       see section 9         14.7       Transport in bulk according to       Non-applicable	4: TRANSPORT INFORMATIO	SECTION 14:
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       Non-applicable	.1 UN number:	14.1
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       Non-applicable	.2 UN proper shipping name:	14.2
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       Non-applicable	.3 Transport hazard class(es):	14.3
14.5       Environmental hazards:       No         14.6       Special precautions for user       Physico-Chemical properties:       see section 9         14.7       Transport in bulk according to       Non-applicable	Labels:	
<ul> <li>14.6 Special precautions for user Physico-Chemical properties: see section 9</li> <li>14.7 Transport in bulk according to Non-applicable</li> </ul>	.4 Packing group:	14.4
Physico-Chemical properties:       see section 9         14.7       Transport in bulk according to       Non-applicable	.5 Environmental hazards:	14.5
14.7 Transport in bulk according to Non-applicable	.6 Special precautions for user	14.6
	Physico-Chemical properties:	
Annex II of Marpol and the IBC Code:	Annex II of Marpol and the IBC	14.7

#### 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:

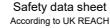
Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

http://echa.europa.eu

http://eur-lex.europa.eu

Abbreviations and acronyms:



# 

## Flowcell (Flush) Tether / Priming Tether

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

#### - 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:	1064.6 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: TO	XICOLOGICAL INFORMATION (c	ontinued)	
- Corrosiv	oxicity :Based on available data, the cla vity/Irritability: Based on available data, t th the skin and the eyes (acute effect):		net
- Contact	with the skin: Based on available data, with the eyes: Based on available data, ets (carcinogenicity, mutagenicity and tox	the classification criteria are not	
IARC: No - 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	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	Based on available data, the classification criteria are not met		
G- Specific ta	rget organ toxicity (STOT)-repeated exp	osure:	
- Skin: Ba	target organ toxicity (STOT)-repeated e ased on available data, the classification for this effect. For more information see hazard:	criteria are not met, as it does no	
Based on	available data, the classification criteria	are not met	
Other information	ation:		
Non-applicabl	e		
Specific toxic	cology information on the substances	:	
Not available			
	y Estimate (ATE mix):		
	ATE mix		Ingredient(s) of unknown toxicity
Oral	>5000 mg/kg (Calcul	ation method)	Non-applicable
	5 5000 mm //mm (On-law)		

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:

With regard to ADIX 2021 and IXID 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			
		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 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:

- 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. - END OF SAFETY DATA SHEET -



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	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)
<u>e</u>	
	CTION 2: HAZARDS IDENTIFICATION
SEC 2.1	Classification of the substance or mixture:
	Classification of the substance or mixture: GB CLP Regulation:
2.1	Classification of the substance or mixture: GB CLP Regulation: The product is not classified as hazardous according to GB CLP Regulation.
	Classification of the substance or mixture: GB CLP Regulation: The product is not classified as hazardous according to GB CLP Regulation. Label elements:
2.1	Classification of the substance or mixture: GB CLP Regulation: The product is not classified as hazardous according to GB CLP Regulation. Label elements: GB CLP Regulation:
2.1	Classification of the substance or mixture: GB CLP Regulation: The product is not classified as hazardous according to GB CLP Regulation. Label elements:
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:

## 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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-						
SEC	HON 7: HANDLII	NG 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					
	products. Cons	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. 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					
			environmental risks. For more information see subsection 6.2			
7.2		fe storage, including any incompatib	ilities:			
	A Technical meas	sures for storage				
	Maximum time:	12 Months				
	B General conditi	ons for storage				
	Avoid sources	of heat, radiation, static electricity and c	ontact with food. For additional information see subsection 10.5			
7.3	Specific end use(	s):				
	Except for the instr product.	uctions already specified it is not neces	sary to provide any special recommendation regarding the uses of this			
SEC	TION 8: EXPOSU	JRE CONTROLS/PERSONAL PR	ROTECTION			
B.1	Control paramete	rs:				
Substances whose occupational exposure limits have to be monitored in the workplace:						
	There are no applie	cable occupational exposure limits for the	ne substances contained in the product			
8.2	Exposure controls	s:				
	A Individual prote	ction measures, such as personal prote	ective equipment			
As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding 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. information contained herein is a recommendation which needs some specification from the labour risk prevention it is not known whether the company has additional measures at its disposal. B Respiratory protection						
	The use of prot	ection equipment will be necessary if a	mist forms or if the occupational exposure limits are exceeded.			
	C Specific protect	tion 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			
		and has therefore to be checked prior to				
	Pictogram	PPE	Remarks			
	Mandatory face	Panoramic glasses against splash/projectio	ns. Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.			
	protection					
	E Body protectior	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 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 <sup>3</sup>
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 flamma 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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CTION 11: TOX	ICOLOGICAL INFORMATION (c	ontinued)	
- Corrosivi	kicity :Based on available data, the cla ty/Irritability: Based on available data, th h the skin and the eyes (acute effect):		net
- Contact	with the skin: Based on available data, t with the eyes: Based on available data, s (carcinogenicity, mutagenicity and tox	the classification criteria are not	
IARC: No - Mutagen	enicity: Based on available data, the cla n-applicable icity: Based on available data, the class ctive toxicity: Based on available data, t effects:	ification criteria are not met	net
- Skin: Bas	ory: Based on available data, the classif sed on available data, the classification get organ toxicity (STOT) - single expos	criteria are not met	
Based on a	vailable data, the classification criteria a	are not met	
G- Specific tar	get organ toxicity (STOT)-repeated exp	osure:	
- Skin: Bas	target organ toxicity (STOT)-repeated e sed on available data, the classification for this effect. For more information see nazard:	criteria are not met, as it does no	a, the classification criteria are not met ot contain substances classified as
Based on a	vailable data, the classification criteria a	are not met	
Other informa	tion:		
Non-applicable			
Specific toxico	ology information on the substances	:	
Not available			
Acute Toxicity	· Estimate (ATE mix):		
	ATE mix		Ingredient(s) of unknown toxicity
Oral	>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

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

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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UFI: unique formula identifier IARC: International Agency for Research on Cancer	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	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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#### **Library Beads**

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

#### 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



# Library Beads

SEC	TION 7: HANDLIN	G AND STORAGE (continued)				
	Maintain order, o	current legislation concerning the preven leanliness and dispose of using safe met mendations for the prevention of fires and				
	products. Consu	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.					
		mendations to prevent environmental risk				
		·	vironmental risks. For more information see subsection 6.2			
<b>.</b> 2		e storage, including any incompatibiliti				
	A Technical measu					
	Maximum time:	12 Months				
	B General conditio	ns for storage				
	Avoid sources o	f heat, radiation, static electricity and cont	tact with food. For additional information see subsection 10.5			
.3	Specific end use(s	):				
	Except for the instru product.	ctions already specified it is not necessar	y to provide any special recommendation regarding the uses of this			
SEC		RE CONTROLS/PERSONAL PRO	ΤΕCTION			
5.1						
	Control parameters		ponitored in the workplace:			
		occupational exposure limits have to be m				
3.2	Exposure controls	able occupational exposure limits for the s	substances contained in the product			
.2	•	tion measures, such as personal protectiv	ve equipment			
	marking>>. For i protection,) co information conta it is not known w	As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding < <ukca marking="">&gt;. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal. B Respiratory protection</ukca>				
	The use of prote	ction equipment will be necessary if a mis	st forms or if the occupational exposure limits are exceeded.			
	C Specific protection	on for the hands				
	Pictogram	PPE	Remarks			
	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 calcular total reliability and has therefore to be checked prior to the application. D Eye and face protection						
	Pictogram	PPE	Remarks			
	Mandatory face	Panoramic glasses against splash/projections.	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.			
	E Body protection	1	I			



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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 °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 <sup>3</sup>
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 info	rmation property of its hazards.



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SEC	TION 9: PHYSICAL AND CHEMICAL PP	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 flamma components:	able 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 provid	ling 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 INFO	ORMATION (cor	tinued)	
- Corrosiv		available data, the	fication criteria are not met classification criteria are not m	net
- Contact		n available data, th	classification criteria are not n e classification criteria are not i ty to reproduction):	
IARC: N - Mutage	on-applicable nicity: Based on availabl uctive toxicity: Based on	e data, the classifi	sification criteria are not met cation criteria are not met classification criteria are not n	net
- Skin: Ba	<ul> <li>Respiratory: Based on available data, the classification criteria are not met</li> <li>Skin: Based on available data, the classification criteria are not met</li> <li>F- Specific target organ toxicity (STOT) - single exposure:</li> </ul>			
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	<ul> <li>Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met</li> <li>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.</li> <li>H- Aspiration hazard:</li> </ul>			
Based on	available data, the class	ification criteria are	not met	
Other inform	ation:			
Non-applicabl	e			
Specific toxic	ology information on	the substances:		
Not available				
Acute Toxicit	y Estimate (ATE mix):			
	, , ,	ATE mix		Ingredient(s) of unknown toxicity
Oral	>	5000 mg/kg (Calculatio	n method)	Non-applicable
Dermal	>	5000 mg/kg (Calculatio	n method)	Non-applicable

Non-applicable

# SECTION 12: ECOLOGICAL INFORMATION

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

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

#### 12.1 Toxicity:

Not available

Inhalation

12.2 Persistence and degradability:

Not available

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

Not available

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

# 12.6 Other adverse effects:

Not described



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# SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods:

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

# Type of waste:

Non-applicable

#### Waste management (disposal and evaluation):

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

#### Regulations related to waste management:

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

UK legislation: The Waste Regulations 2011.

# SECTION 14: TRANSPORT INFORMATION

#### Other information:

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

With regard to ADR 2021 and RID 2021:

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



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

# SECTION 15: REGULATORY 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 Dose 50 LC50: Effective concentration 50 EC50: Effective concentration 50 LogPOW: Octanolwater partition coefficient Koc: Partition coefficient of organic carbon UFI: unique formula identifier IARC: International Agency for Research on Cancer	

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



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SEC	TION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1	Product identifier: Library Solution
	Other means of identification:
	LIS
1.2	Relevant identified uses of the substance or mixture and uses advised against:
	Relevant uses: Research use only
	Uses advised against: All uses not specified in this section or in section 7.3
1.3	Details of the supplier of the safety data sheet:
	Oxford Nanopore Technologies Gosling Building, Edmund Halley Road, Oxford Science Park OX4 4DQ Oxford - Oxon - England Phone: +44 (0)845 034 7900 - Fax: +44 (0)845 034 7901
	http://www.nanoporetech.com/
1.4	Emergency telephone number: +44 (0)845 034 7900 (9am-5:30pm GMT)
L	
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 leanliness and dispose of using safe met mendations for the prevention of fires an				
		ed to transfer at a slow speed to avoid the It 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 drink during the process, washing hands afterwards with suitable cleaning products.					
	D Technical recom	mendations to prevent environmental risl	KS			
	It is not necessa	ry to take special measures to prevent er	vironmental risks. For more information see subsection 6.2			
<b>'</b> .2	Conditions for safe	e storage, including any incompatibiliti	ies:			
	A Technical measu	ures for storage				
	Maximum time:	12 Months				
	B General condition	ns for storage				
	Avoid sources of	f heat, radiation, static electricity and con	tact with food. For additional information see subsection 10.5			
7.3	Specific end use(s	):				
	Except for the instru product.	ctions already specified it is not necessar	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	occupational exposure limits have to be n	nonitored in the workplace:			
	There are no applica	able occupational exposure limits for the s	occupational exposure limits for the substances contained in the product			
3.2	Exposure controls	:				
	A Individual protec	tion measures, such as personal protecti	ve equipment			
	As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding < <ukca marking="">&gt;. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal. B Respiratory protection</ukca>					
	The use of prote	ction equipment will be necessary if a mis	st forms or if the occupational exposure limits are exceeded.			
	C Specific protection	on for the hands				
	Pictogram	PPE	Remarks			
	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 pro	otection	T			
	Pictogram	PPE	Remarks			
	Mandatory face	Panoramic glasses against splash/projections.	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.			
	E Body protection	1	1			
	-, -, -, -, -, -, -, -, -, -, -, -, -, -					



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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	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 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	SECTION 9: PHYSICAL 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 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):



ting: 15/09/2023 Date of compila	tion: 22/06/2022	Version: 1	
SECTION 11: TOXICOLOGICAL II	NFORMATION (	continued)	
<ul> <li>Acute toxicity : Based on a</li> <li>Corrosivity/Irritability: Based</li> <li>Contact with the skin and the e</li> </ul>	d on available data,		
<ul> <li>Contact with the skin: Base</li> <li>Contact with the eyes: Base</li> <li>D- CMR effects (carcinogenicity,</li> </ul>	ed on available data	, the classification criter	
<ul> <li>Carcinogenicity: Based on a IARC: Non-applicable</li> <li>Mutagenicity: Based on ava</li> <li>Reproductive toxicity: Based</li> <li>E- Sensitizing effects:</li> </ul>	ailable data, the clas	ssification criteria are no	t met
<ul> <li>Respiratory: Based on avail</li> <li>Skin: Based on available da</li> <li>F- Specific target organ toxicity (\$</li> </ul>	ata, the classificatio	n criteria are not met	met
Based on available data, the c	assification criteria	are not met	
G- Specific target organ toxicity (	STOT)-repeated ex	posure:	
	ata, the classification	n criteria are not met, as	ailable data, the classification criteria are not met s it does not contain substances classified as
Based on available data, the c	lassification criteria	are not met	
Other information:			
Non-applicable			
Specific toxicology information	on the substance	s:	
Not available			
Acute Toxicity Estimate (ATE m	nix):		
	ATE mix		Ingredient(s) of unknown toxicity
			5 ()

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



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



# **Library Solution**

Printing: 15/09/2023	Date of compilation: 22/06/2022
----------------------	---------------------------------

Version: 1

SECTION 16: OTHER INFORMATION (continued)
ADR: European agreement concerning the international carriage of dangerous goods by road IMDG: International maritime dangerous goods code IATA: International Air Transport Association ICAO: International Civil Aviation Organisation COD: Chemical Oxygen Demand BOD5: 5day biochemical oxygen demand BCF: Bioconcentration factor LD50: Lethal Dose 50 LC50: Lethal 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.



# Native Adapter

Printing	: 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:
	NA
1.2	Relevant identified uses of the substance or mixture and uses advised against:
	Relevant uses: Research use only
	Uses advised against: All uses not specified in this section or in section 7.3
1.3	Details of the supplier of the safety data sheet:
	Oxford Nanopore Technologies Gosling Building, Edmund Halley Road, Oxford Science Park OX4 4DQ Oxford - Oxon - England Phone: +44 (0)845 034 7900 - Fax: +44 (0)845 034 7901 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	The product is not classified as hazardous according to GB CLP Regulation. Label elements:
2.2	
2.2	Label elements:
2.2	Label elements: GB CLP Regulation:
2.2	Label elements:         GB CLP Regulation:         Hazard statements:         Non-applicable         Precautionary statements:
2.2	Label elements:         GB CLP Regulation:         Hazard statements:         Non-applicable
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.

#### 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



#### **Native Adapter**

Printing: 15/09/2023 Date of compilation: 06/09/2022 Revised: 06/09/2022 Version: 3 (Replaced 2)

# 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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	: 15/09/2023	Date of c	ompilation: 06/09/2022	Revised: 06/09/2022	Version: 3 (Replaced 2)
SEC	TION 7: HAND	LING AN	D STORAGE (continu	ed)	
	A General pre	cautions for	r safe use		
	Comply with Maintain or	n the curren der, cleanlin		safe methods (section 6).	s with regards manually handling weights.
	products. C	onsult section		naterials that should be avoid	static charges that could affect flammable ded.
	Do not eat o	or drink duri	ng the process, washing h	ands afterwards with suitabl	le cleaning products.
	D Technical re	ecommenda	tions to prevent environm	ental risks	
	It is not nec	essary to ta	ke special measures to pr	event environmental risks. F	or more information see subsection 6.2
.2	Conditions for	safe stora	ge, including any incom	patibilities:	
	A Technical m	neasures for	storage		
	Maximum ti	me:	12 Months		
	B General cor	nditions for s	storage		
				and contact with food. For a	dditional information see subsection 10.5
3	Specific end u				
		se(s):			
	-	.,	already specified it is not r	necessary to provide any spe	ecial recommendation regarding the uses of th
SEC	Except for the in product.	nstructions	already specified it is not r		ecial recommendation regarding the uses of th
	Except for the in product.	SURE CO			ecial recommendation regarding the uses of th
	Except for the in product.	SURE CO	ONTROLS/PERSONA	L PROTECTION	
	Except for the in product. CTION 8: EXPO Control param Substances wh	SURE CO eters: ose occupa	DNTROLS/PERSONA	L PROTECTION	
	Except for the in product. CTION 8: EXPO Control param Substances wh	SURE CO eters: ose occupa	ONTROLS/PERSONA	L PROTECTION	
	Except for the in product. Control param Substances wh EH40/2005 Wor	SURE CO eters: ose occupa	DNTROLS/PERSONA tional exposure limits have osure limits, fourth edition,	L PROTECTION	kplace: Occupational exposure limits WEL (8h) 10 mg/m <sup>3</sup>
.1	Except for the in product. Control param Substances wh EH40/2005 Wor Glycerol CAS: 56-81-5	SURE CO eters: ose occupa kplace expo	DNTROLS/PERSONA tional exposure limits have osure limits, fourth edition,	L PROTECTION	kplace: Occupational exposure limits
5.1	Except for the in product. Control param Substances wh EH40/2005 Wor	SURE CO eters: ose occupa kplace expo	DNTROLS/PERSONA tional exposure limits have osure limits, fourth edition,	L PROTECTION	kplace: Occupational exposure limits WEL (8h) 10 mg/m <sup>3</sup>
3.1	Except for the in product. Control param Substances wh EH40/2005 Wor Glycerol CAS: 56-81-5 Exposure cont	SURE CO eters: ose occupa kplace expo rols:	DNTROLS/PERSONA tional exposure limits have osure limits, fourth edition,	t PROTECTION	kplace: Occupational exposure limits WEL (8h) 10 mg/m <sup>3</sup>
SEC 8.1 8.2	Except for the in product. Control param Substances wh EH40/2005 Wor Glycerol CAS: 56-81-5 Exposure cont A Individual pu As a preven marking>>. protection, information	structions a SURE CO eters: ose occupa kplace expo rols: rotection me tative meas For more in .) consult th contained h wn whether	DNTROLS/PERSONA tional exposure limits have osure limits, fourth edition, Identification	L PROTECTION e to be monitored in the work published 2020: protective equipment use basic Personal Protective basic Personal Protective tective Equipment (storage, ded by the manufacturer. For	kplace: Occupational exposure limits WEL (8h) 10 mg/m <sup>3</sup>
3.1	Except for the in product. Control param Substances wh EH40/2005 Wor Glycerol CAS: 56-81-5 Exposure cont A Individual put As a preven marking>>, protection, information it is not know B Respiratory	SURE CO eters: ose occupa kplace expo rols: rotection me tative meas For more in .) consult th contained h wn whether protection	DNTROLS/PERSONA tional exposure limits have osure limits, fourth edition, Identification easures, such as personal sure it is recommended to formation on Personal Pro- te information leaflet provi- terein is a recommendation the company has addition	L PROTECTION e to be monitored in the work published 2020: protective equipment use basic Personal Protective totective Equipment (storage, ded by the manufacturer. For n which needs some specific al measures at its disposal.	Ve Equipment, with the corresponding < <ukca, 7.1.="" all<="" class="" cleaning,="" information="" maintenance,="" more="" of="" or="" see="" subsection="" td="" use,=""></ukca,>
3.1	Except for the in product. Control param Substances wh EH40/2005 Wor Glycerol CAS: 56-81-5 Exposure cont A Individual put As a preven marking>>, protection, information it is not know B Respiratory	SURE CO eters: ose occupa kplace expo rols: rotection me tative meas For more in .) consult th contained h wn whether protection e	DNTROLS/PERSONA tional exposure limits have osure limits, fourth edition, Identification	L PROTECTION e to be monitored in the work published 2020: protective equipment use basic Personal Protective totective Equipment (storage, ded by the manufacturer. For n which needs some specific al measures at its disposal.	WEL (8h)       10 mg/m <sup>2</sup> WEL (15 min)       2         West, cleaning, maintenance, class of or more information see subsection 7.1. All cation from the labour risk prevention services

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.



# **Native Adapter**

TION 8: EXPOSURE CONTROLS/PE	RSONAL PROTECTI	ON (continued)	
E Body protection			
Pictogram PPE		Remarks	
Work clot	to t	e before any evidence of deterioration. For periods of prolonged exposi- ne product for professional/industrial users CE III is recommended, in the with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN 13688:2013, EN 464:1994.	
F Additional emergency measures	I		
It is not necessary to take additional em	ergency measures.		
Environmental exposure controls:			
In accordance with the community legislation	on for the protection of the	environment it is recommended to avoid environmental	
spillage of both the product and its containe			
CTION 9: PHYSICAL AND CHEMICAL	PROPERTIES		
Information on basic physical and chem	ical properties:		
For complete information see the product d	atasheet.		
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	i (12.38 kPa)	
Evaporation rate at 20 °C:	Non-applica	ble *	
Product description:			
Density at 20 ºC:	1144 kg/m³		
Relative density at 20 °C:	1.144		
Dynamic viscosity at 20 °C:	Non-applica	ble *	
Kinematic viscosity at 20 °C:	Non-applica	ble *	
Kinematic viscosity at 40 °C:	Non-applica	ble *	
Concentration:	Non-applica	ble *	
pH:	Non-applica	ble *	
Vapour density at 20 °C:	Non-applica	ble *	
Partition coefficient n-octanol/water 20 °C:	Non-applica	ble *	
Solubility in water at 20 °C:	Non-applica	ble *	
Solubility properties:	Non-applica	ble *	
Decomposition temperature:	Non-applica	ble *	
Melting point/freezing point:	Non-applica	ble *	
Flammability:			
Flash Point:	Non Flamma	uble (>60 °C)	
Flammability (solid, gas):	Non-applica	ble *	
Autoignition temperature:	Non-applica	ble *	

- CONTINUED ON NEXT PAGE -

Revised: 06/09/2022



#### Native Adapter

Printing	15/09/2023	Date of compilation: 06/09/2022	Revised: 06/09/2022	Version: 3 (Replaced 2)
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	lion:		
	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:	ercentage (by mass) of flammable	Non-applicable *	
	Other safety cl	haracteristics:		
	Surface tension	at 20 °C:	Non-applicable *	
	Refraction inde	x:	Non-applicable *	
	*Not relevant due t	o the nature of the product, not providing inform	nation property of its hazards.	

# SECTION 10: STABILITY AND REACTIVITY

#### 10.1 Reactivity:

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

#### 10.2 Chemical stability:

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

#### 10.3 Possibility of hazardous reactions:

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

#### 10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

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

#### 10.5 Incompatible materials:

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

#### 10.6 Hazardous decomposition products:

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

- t ingestion (doute choot).
  - Acute toxicity : Based on available data, the classification criteria are not met
- Corrosivity/Irritability: Based on available data, the classification criteria are not met



# Native Adapter

nting: 15/09/2023	Date of compilation: 06/09/2022	Revised: 06/09/2022	Version: 3 (Replaced 2)			
SECTION 11: TOX	ICOLOGICAL INFORMATION (	continued)				
B- Inhalation (a	B- Inhalation (acute effect):					
- Corrosivit	<ul> <li>Acute toxicity : Based on available data, the classification criteria are not met</li> <li>Corrosivity/Irritability: Based on available data, the classification criteria are not met</li> <li>Contact with the skin and the eyes (acute effect):</li> </ul>					
<ul> <li>Contact v</li> </ul>	<ul> <li>Contact with the skin: Based on available data, the classification criteria are not met</li> <li>Contact with the eyes: Based on available data, the classification criteria are not met</li> <li>CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):</li> </ul>					
IARC: Nor - Mutageni	enicity: Based on available data, the c n-applicable icity: Based on available data, the clas ctive toxicity: Based on available data, effects:	sification criteria are not met				
- Skin: Bas	<ul> <li>Respiratory: Based on available data, the classification criteria are not met</li> <li>Skin: Based on available data, the classification criteria are not met</li> <li>F- Specific target organ toxicity (STOT) - single exposure:</li> </ul>					
Based on a	Based on available data, the classification criteria are not met					
G- Specific tarç	G- Specific target organ toxicity (STOT)-repeated exposure:					
<ul> <li>Skin: Bas hazardous f</li> </ul>	<ul> <li>Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met</li> <li>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.</li> <li>H- Aspiration hazard:</li> </ul>					
Based on a	Based on available data, the classification criteria are not met					
Other informat	ion:					
Non-applicable						
	ology information on the substances	s.				
Not available						
Acute Toxicity	Estimate (ATE mix):					
	ATE mix		Ingredient(s) of unknown toxicity			
Oral	>5000 mg/kg (Calcu		Non-applicable			
Dermal	SEOOD ma/kg (Calci	lation 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



#### **Native Adapter**

Printing: 15/09/2023 Date of compilation: 06/09/2022 Revised: 06/09/2022 Version: 3 (Replaced 2)

# SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods:

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

#### Type of waste:

Non-applicable

#### Waste management (disposal and evaluation):

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

#### Regulations related to waste management:

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

UK legislation: The Waste Regulations 2011.

# SECTION 14: TRANSPORT INFORMATION

#### Other information:

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

With regard to ADR 2021 and RID 2021:

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

With regard to IATA/ICAO 2023:

- CONTINUED ON NEXT PAGE -

Revised: 06/09/2022



## Native Adapter

Printing: 15/09/2023	Date of compilation: 06/09/	2022 Rev	ised: 06/09/2022	Version: 3 (Replaced 2)
SECTION 14:	TRANSPORT INFORMATION	N (continued)		
14.1	UN number:	Non-applicable		
14.2	UN proper shipping name:	Non-applicable		
14.3	Transport hazard class(es):	Non-applicable		
	Labels:	Non-applicable		
14.4	Packing group:	Non-applicable		
14.5	Environmental hazards:	No		
14.6	Special precautions for user			
	Physico-Chemical properties:	see section 9		
14.7	Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicable		

# SECTION 15: REGULATORY INFORMATION

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

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

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

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

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:



# **Native Adapter**

Printing: 15/09/2023	Date of compilation: 06/09/2022	Revised: 06/09/2022	Version: 3 (Replaced 2)	
SECTION 16: OTH	HER INFORMATION (continued)			
IMDG: Internation IATA: Internation ICAO: Internation ICAO: Internation ICAO: Internation ICAO: Internation BOD5: 5day bit BOD5: Lethal D EC50: Lethal D EC50: Effectiv LogPOW: Octa Koc: Partition of UFI: unique for		al carriage of dangerous go	by road	

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

- END OF SAFETY DATA SHEET -

Revised: 06/09/2022



#### Native Barcodes / Native Barcode Plate

	15/09/2023 Date of compilation: 16/02/2022 Version: 1
SEC	TION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1	Product identifier: Native Barcodes / Native Barcode Plate
	Other means of identification:
	NB01-96, NB01-12, NB13-24
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
21	TION 2: HAZARDS IDENTIFICATION
2.1	Classification of the substance or mixture:
2.1	Classification of the substance or mixture: GB CLP Regulation:
2.1 2.2	Classification of the substance or mixture:
	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:
	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:
	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:
	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
	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.
2.2	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



#### Native Barcodes / Native Barcode Plate

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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



#### 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 recommendations on general occupational hygiene					
		<b>5</b> 1 5	erwards with suitable cleaning products.			
		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					
			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	ry to provide any special recommendation regarding the uses of this			
			TECTION			
SEC	TION 8: EXPOSUR	RE CONTROLS/PERSONAL PRO	TECTION			
B.1	Control parameters	:				
Substances whose occupational exposure limits have to be monitored 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 m protection,…) cor information conta	nore information on Personal Protective I nsult the information leaflet provided by t	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 			
	B Respiratory prote	ction				
	The use of protect	tion 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			
		Chemical protective gloves	Replace the gloves at any sign of deterioration.			
	Mandatory hand protection					
	As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application. D Eye and face protection					
	Pictogram	PPE	Remarks			
		Panoramic glasses against splash/projections.	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.			
	Mandatory face protection					
	E Body protection					
	E Body protection					



#### Native Barcodes / Native Barcode Plate

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	<b>℃</b>
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 <sup>3</sup>
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.



#### Native Barcodes / Native Barcode Plate

Printing	15/09/2023	Date of compilation: 16/02/2022	Version: 1
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 properties:		Non-applicable *
	Oxidising prope	rties:	Non-applicable *
Corrosive to metals:		etals:	Non-applicable *
	Heat of combustion:		Non-applicable *
	Aerosols-total percentage (by mass) of flammable components:		Non-applicable *
	Other safety cl	haracteristics:	
	Surface tension	at 20 °C:	Non-applicable *
	Refraction index	X:	Non-applicable *
	*Not relevant due to	o the nature of the product, not providing inf	ormation property of its hazards.

# SECTION 10: STABILITY AND REACTIVITY

#### 10.1 Reactivity:

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

#### 10.2 Chemical stability:

Chemically stable under the 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):

# 

## Native Barcodes / Native Barcode Plate

ting: 15/09/2023 Date of compilation	n: 16/02/2022	Version: 1			
ECTION 11: TOXICOLOGICAL INF	ORMATION (co	ontinued)			
<ul> <li>Corrosivity/Irritability: Based o</li> </ul>	<ul> <li>Acute toxicity : Based on available data, the classification criteria are not met</li> <li>Corrosivity/Irritability: Based on available data, the classification criteria are not met</li> <li>Contact with the skin and the eyes (acute effect):</li> </ul>				
<ul> <li>Contact with the skin: Based of - Contact with the eyes: Based</li> <li>D- CMR effects (carcinogenicity, mustion)</li> </ul>	on available data, t	he classification criteria are not			
<ul> <li>Carcinogenicity: Based on availa</li> <li>IARC: Non-applicable</li> <li>Mutagenicity: Based on availa</li> <li>Reproductive toxicity: Based on</li> <li>E- Sensitizing effects:</li> </ul>	ble data, the classi	fication criteria are not met	met		
<ul> <li>Skin: Based on available data</li> </ul>	<ul> <li>Respiratory: Based on available data, the classification criteria are not met</li> <li>Skin: Based on available data, the classification criteria are not met</li> <li>F- Specific target organ toxicity (STOT) - single exposure:</li> </ul>				
Based on available data, the classification criteria are not met					
G- Specific target organ toxicity (STOT)-repeated exposure:					
<ul> <li>Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met</li> <li>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.</li> <li>H- Aspiration hazard:</li> </ul>					
Based on available data, the classification criteria are not met					
Other information:	Other information:				
Non-applicable					
Specific toxicology information on the substances:					
Not available					
Acute Toxicity Estimate (ATE mix)	):				
	ATE mix		Ingredient(s) of unknown toxicity		
Oral	>5000 mg/kg (Calculat	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



#### Native Barcodes / Native Barcode Plate

# 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 Rev

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.

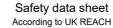
# SECTION 14: TRANSPORT INFORMATION

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





#### Native Barcodes / Native Barcode Plate

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

# 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.



# Sequencing Buffer / RNA Running Buffer

	: 15/09/2023 Date of compilation: 14/03/2022 Revised: 08/04/2022 Version: 2 (Replaced 1)				
SEC.	TION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING				
1.1	Product identifier: Sequencing Buffer / RNA Running Buffer				
	Other means of identification:				
	SQB, RRB, SB				
1.2	I.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/				
14	Emergency telephone number: +44 (0)845 034 7900 (9am-5:30pm GMT)				
1.4	Emergency telephone number: +44 (0)845 034 7900 (9am-5:30pm GMT)				
	Emergency telephone number: +44 (0)845 034 7900 (9am-5:30pm GMT)				
SEC	TION 2: HAZARDS IDENTIFICATION				
SEC	TION 2: HAZARDS IDENTIFICATION Classification of the substance or mixture:				
SEC	TION 2: HAZARDS IDENTIFICATION Classification of the substance or mixture: GB CLP Regulation:				
SEC <sup>*</sup> 2.1	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 <sup>*</sup> 2.1	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 <sup>*</sup> 2.1	TION 2: HAZARDS IDENTIFICATION Classification of the substance or mixture: GB CLP Regulation: The product is not classified as hazardous according to GB CLP Regulation. Label elements: GB CLP Regulation:				
SEC <sup>*</sup> 2.1	TION 2: HAZARDS IDENTIFICATION Classification of the substance or mixture: GB CLP Regulation: The product is not classified as hazardous according to GB CLP Regulation. Label elements: GB CLP Regulation: Hazard statements:				
SEC <sup>*</sup> 2.1	TION 2: HAZARDS IDENTIFICATION Classification of the substance or mixture: GB CLP Regulation: The product is not classified as hazardous according to GB CLP Regulation. Label elements: GB CLP Regulation: Hazard statements: Non-applicable				
SEC <sup>*</sup> 2.1	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.				

#### 3.1 Substance:

Non-applicable

#### 3.2 Mixture:

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

#### Components:

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

# SECTION 4: FIRST AID MEASURES

# 4.1 Description of first aid measures:

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

#### By inhalation:

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

#### By skin contact:

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



# Sequencing Buffer / RNA Running Buffer

DN 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.				
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.				
By ingestion/aspiration: In case of consumption in large quantities, it is recommended to seek medical assistance.				
n case of consumption in large quantities, it is recommended to seek medical assistance.				
• · · · · · · · · · · · · · · · · · · ·				
lost important symptoms and effects, both acute and delayed:				
cute and delayed effects are indicated in sections 2 and 11.				
ndication of any immediate medical attention and special treatment needed:				
Ion-applicable				
DN 5: FIREFIGHTING MEASURES				
xtinguishing media:				
uitable 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:				
on-applicable				
pecial hazards arising from the substance or mixture:				
ue to its non-inflammable nature, the product does not present a fire risk under normal conditions of storage, handling and use.				
dvice for firefighters:				
epending 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,). dditional provisions:				
ct in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other mergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to ombustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an queous medium.				

#### 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	CTION 7: HAN	DLING AN	D STORAGE (continue	ed)			
A General precautions for safe use							
	Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6). B Technical recommendations for the prevention of fires and explosions						
	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 duri	ng the process, washing ha	ands afterwards with suitab	le cleaning products.		
	D Technical ı	recommenda	tions to prevent environme	ntal risks			
	It is not nee	cessary to ta	ke special measures to pre	vent environmental risks. F	For more information see subsection 6.2		
7.2	Conditions fo	r safe stora	ge, including any incomp	atibilities:			
	A Technical ı	measures for	storage				
	Maximum	time:	12 Months				
	B General co	onditions for a	storage				
	Avoid sour	ces of heat,	radiation, static electricity a	nd contact with food. For a	additional information see subsection 10.5		
7.3	Specific end	use(s):					
	Except for the product.	instructions	already specified it is not n	ecessary to provide any sp	ecial recommendation regarding the uses of this		
SEC	CTION 8: EXPO	OSURE CO	ONTROLS/PERSONAL	. PROTECTION			
8.1	Control paran	neters:					
	Substances wl	hose occupa	tional exposure limits have	to be monitored in the wor	kplace:		
	There are no a	applicable oc	cupational exposure limits	for the substances containe	ed in the product		
8.2	Exposure cor	ntrols:					
	A Individual p	protection me	easures, such as personal	protective equipment			
	As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding < <ukca marking="">&gt;. 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 e	quipment will be necessary	if a mist forms or if the occ	cupational exposure limits are exceeded.		
	C Specific pro	otection for t	he hands				
	Pictogr	am	PPF		Remarks		

Mandatory hand protection         Chemical protective gloves         Replace the gloves at any sign of deterioration.	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 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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CHON 8: EXPOSURE CONTROLS/PERSU	ONAL PROTECTION (continued)		
Pictogram PPE	Remarks		
Work clothing	Replace before any evidence of deterioration. For periods of prolonged exposur 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 IS 13688:2013, EN 464:1994.		
F Additional emergency measures			
It is not necessary to take additional emerge	ency measures.		
Environmental exposure controls:			
In accordance with the community legislation for spillage of both the product and its container. For	r the protection of the environment it is recommended to avoid environmental or additional information see subsection 7.1.D		
CTION 9: PHYSICAL AND CHEMICAL PRO	OPERTIES		
Information on basic physical and chemical	properties:		
For complete information see the product datast	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 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:	1105.7 kg/m <sup>3</sup>		
Relative density at 20 °C:	1.106		
Dynamic viscosity at 20 °C:	Non-applicable *		
Kinematic viscosity at 20 °C:	Non-applicable *		
Kinematic viscosity at 40 °C:	Non-applicable *		
Concentration:	Non-applicable *		
pH:	Non-applicable *		
Vapour density at 20 °C:	Non-applicable *		
Partition coefficient n-octanol/water 20 °C:	Non-applicable *		
Solubility in water at 20 °C:	Non-applicable *		
Solubility properties:	Completely miscible		
Decomposition temperature:	Non-applicable *		
Melting point/freezing point:	Non-applicable *		
Flammability:			
Flash Point:	Non Flammable (>60 °C)		
Flammability (solid, gas):	Non-applicable *		
Autoignition temperature: Lower flammability limit:	Non-applicable * 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 properties: Corrosive to metals: Heat of combustion:		Non-applicable *		
			Non-applicable *		
			Non-applicable *		
	Aerosols-total p components:	ercentage (by mass) of flammable	Non-applicable *		
	Other safety characteristics:				
	Surface tension at 20 °C:		Non-applicable *		
	Refraction index	C.	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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SECTION 11: TO	SECTION 11: TOXICOLOGICAL INFORMATION (continued)						
- Corrosiv	<ul> <li>Acute toxicity : Based on available data, the classification criteria are not met</li> <li>Corrosivity/Irritability: Based on available data, the classification criteria are not met</li> <li>Contact with the skin and the eyes (acute effect):</li> </ul>						
- Contact	<ul> <li>Contact with the skin: Based on available data, the classification criteria are not met</li> <li>Contact with the eyes: Based on available data, the classification criteria are not met</li> <li>CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):</li> </ul>						
IARC: No - Mutager - Reprodu	<ul> <li>Carcinogenicity: Based on available data, the classification criteria are not met IARC: Non-applicable</li> <li>Mutagenicity: Based on available data, the classification criteria are not met</li> <li>Reproductive toxicity: Based on available data, the classification criteria are not met</li> <li>E- Sensitizing effects:</li> </ul>						
- Skin: Ba	<ul> <li>Respiratory: Based on available data, the classification criteria are not met</li> <li>Skin: Based on available data, the classification criteria are not met</li> <li>F- Specific target organ toxicity (STOT) - single exposure:</li> </ul>						
Based on a	Based on available data, the classification criteria are not met						
G- Specific tar	G- Specific target organ toxicity (STOT)-repeated exposure:						
- Skin: Ba hazardous	<ul> <li>Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met</li> <li>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.</li> <li>H- Aspiration hazard:</li> </ul>						
Based on a	Based on available data, the classification criteria are not met						
Other informa	Other information:						
Non-applicable	Non-applicable						
Specific toxic	Specific toxicology information on the substances:						
Not available							
Acute Toxicity	Acute Toxicity Estimate (ATE mix):						
Oral	ATE mix Ingredient(s) of unknown toxicity						
Dermal	Oral         >5000 mg/kg (Calculation method)         Non-applicable           Dermal         >5000 mg/kg (Calculation method)         Non-applicable						
Inhalation							

# 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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5.1	Waste treatment methods:						
	Code		Description	Waste class			
	16 05 09discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08Non dangerous						
	Type of waste:						
	Non-applicable						
	Waste ma	nagement (disposal and evaluat	ion):				
	Consult the authorized waste service manager on the assessment and disposal operations in accordance The Waste Regulations 2011, 2011 No. 988. As under 15 01 of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See paragraph 6.2. <b>Regulations related to waste management:</b>						
	In accorda	nce with Annex II of UK REACH t	he provisions related to waste management a	are stated:			
	UK legisla	tion: The Waste Regulations 2011.					
FC		TRANSPORT INFORMATION	N				
20							
		formation:					
	-	rt of dangerous goods by land:	regulations on the transport of dangerous goo	ods (IMDG, IATA, ADR/RID).			
	-	ard to ADR 2021 and RID 2021:					
	•	UN number:	Non-applicable				
	14.2	UN proper shipping name:	Non-applicable				
	14.3		Non-applicable				
	44.4	Labels: Packing group:	Non-applicable Non-applicable				
		Environmental hazards:	No				
	14.6	Special precautions for user					
		Tunnel restriction code:	Non-applicable				
		Physico-Chemical properties:	see section 9				
	14.7	Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicable				
	Transpo	rt of dangerous goods by sea:					
	With rega	ard to IMDG 40-20:					
	14.1	UN number:	Non-applicable				
	14.2		Non-applicable				
	14.3		Non-applicable				
	14.4	Labels: Packing group:	Non-applicable Non-applicable				
	14.5		No				
	14.6	-					
		Special regulations:	Non-applicable				
		EmS Codes:					
		Physico-Chemical properties: Limited quantities:	see section 9 Non-applicable				
		Segregation group:	Non-applicable				
	14.7						
	Transpo	rt of dangerous goods by air:					

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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 INFORMATIC	DN			
15.1 Safety, he	ealth and environmental regulation	ons/legislation sp	pecific for the su	bstance or mixture:	
<ul> <li>Substances listed in UK candidate list of substances of very high concern (SVHCs): Non-applicable</li> <li>Substances listed in UK REACH Authorisation List (Annex 14): Non-applicable</li> </ul>					
Postriatio	no to commorgialization and the	use of cortain d	angerous subst	ances and mixtures (Anney X)/II LIK PEACH	

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 (Conta

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

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

EH40/2005 Workplace exposure limits.

# SECTION 16: OTHER INFORMATION

#### Legislation related to safety data sheets:

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

#### Texts of the legislative phrases mentioned in section 3:

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

**GB CLP Regulation:** 

Non-applicable

Classification procedure:

Non-applicable

Advice related to training:

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

Principal bibliographical sources:

http://echa.europa.eu

http://eur-lex.europa.eu

Abbreviations and acronyms:



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

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

- END OF SAFETY DATA SHEET -

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