BIO-66045

EPIK miRNA Select Lo-ROX Kit Safety Data Sheet



A Meridian Life Science® Company



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 11/04/2017 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1.	Product identifier	
Product f	orm	: Mixture
Product r	ame	: RT Primer Pool
Cat. no.		: BIO66045

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Industrial/Professional use spec

Use of the substance/mixture

: Industrial use Professional use : Laboratory use

1.2.2. Uses advised against

No additional information available **1.3. Details of the supplier of the safety data sheet** Bioline Reagents Ltd. Humber Road London NW2 6EW United Kingdom T: +44(0)20 8830 5300 Email: info.uk@bioline.com

1.4.Emergency telephone numberEmergency number

: +44 (0) 1865 407 333 (UK, English speaking) (24 hours, 7 days)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture Classification according to Regulation (EC) No. 1272/2008 [CLP] Not classified

Adverse physicochemical, human health and environmental effects No additional information available

2.2. Label elements

No labelling obligation.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

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SECTION 3: Composition/information on ingredients

3.1.	Substance
Not app	licable

3.2. Mixture

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH annex II

SECTION 4: First aid measures		
		_
4.1. Description of first aid measures First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medica advice (show the label where possible).	l
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First-aid measures after inhalation	: Remove to fresh air, keep the patient warm and at rest. If symptoms persist, obtain medica attention.	al
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, follow warm water rinse. If symptoms develop, obtain medical attention.	ed by
First-aid measures after eye contact	: Rinse immediately with plenty of water. Ensure that folded skin of eyelids is thoroughly was with water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irrita persists: Get medical advice/attention.	
First-aid measures after ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth. Give 100 - 200 ml of water to drink. If symptoms develop, obtain medical attention.	
SECTION 5: Firefighting measures S.1. Extinguishing media Suitable extinguishing media : Use extinguishi : None known.	ng media appropriate for surrounding fire. Unsuitable extinguishing media	
5.2. Special hazards arising from the su Fire hazard	: Not flammable.	
Hazardous decomposition products in case of fire	: None known.	
5.3. Advice for firefighters		
Firefighting instructions	: Exercise caution when fighting any chemical fire. Avoid fire-fighting water entering the environment.	
Protection during firefighting	: As in any fire, wear self-contained breathing apparatus and full protective gear.	
SECTION 6: Accidental release mea	ISURES	
	quipment and emergency procedures	
6.1.1. For non-emergency personnel		
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Emergency procedures

: Evacuate unnecessary personnel. Avoid contact with skin, eyes and clothing.

6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing and gloves. Emergency procedures : Avoid contact with eyes, skin and clothing.

6.2. Environmental precautions

Notify authorities if large amounts of the product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Absorb with non-combustible material (sand or similar) and transfer to containers for later disposal.

6.4. Reference to other sections

SECTION 8: Exposure controls/personal protection. SECTION 13: Disposal considerations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling	
Precautions for safe handling	: Provide adequate ventilation. Avoid contact with skin, eyes and clothing.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice. Take off contaminated clothing and wash before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2. Conditions for safe storage, includ	ng any incompatibilities
Storage conditions	: Keep only in the original container in a cool well ventilated place. Keep container closed when not in use.
Incompatible materials	: Strong oxidizing agents.
7.3. Specific end use(s)	

Laboratory use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls:

Provide adequate ventilation.

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear protective gloves. Standard EN 374 - Protective gloves against chemicals. The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed. Gloves should be removed and replaced if there are any signs of degradation or breakthrough

Eye protection:

Wear safety glasses with side shields. Standard EN 166 - Personal eye-protection

Skin and body protection:

Long sleeved protective clothing

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Respiratory protection:

Not required for normal conditions of use

Thermal hazard protection:

Not required for normal conditions of use.

Other information:

Do not eat, drink or smoke during use. Handle in accordance with good industrial hygiene and safety procedures.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and c	hamical properties	
Physical state	: Solid (Lyophilised)	
Colour		
	Colourless.	
Odour	:	
	Odourless.	
Odour threshold		
рН	No data available	
μı	No data available	
Relative evaporation rate (butylacetate=1)		
	No data available	
Melting point	:	
	No data available	
Freezing point		
Boiling point	No data available	
	Not applicable.	
Flash point		
	No data available	
Auto-ignition temperature	:	
-	No data available	
Decomposition temperature		
Flammability (solid, gas)	No data available	
	Not applicable	
Vapour pressure		
	No data available	
Relative vapour density at 20 °C Relative density	: No data available	
Relative density		
Solubility	≈ 1 (Water = 1)	
	Water: Miscible	
Log Pow	:	
	No data available	
Viscosity, kinematic	:	
	No data available	
Viscosity, dynamic	Na data sustituti	
Explosive properties	No data available	
р	Not explosive.	
Oxidising properties	:	
	No data available	
Explosive limits	:	
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No data available

9.2.	Other information		
No additi	onal information available		
SECTION	ON 10: Stability and reactivity		
10.1.	Reactivity		
Stable ur	nder normal conditions.		
10.2.	Chemical stability		
Stable ur	Stable under normal conditions.		
40.0	Descibility of benerdays reactions		
10.3.	Possibility of hazardous reactions		
None kno	DWN.		
10.4.	Conditions to avoid		
Extremel	y high or low temperatures.		
10.5.	Incompatible materials		
Strong ox	xidizing agents.		
10.6.	Hazardous decomposition products		
None kno	None known.		

SECTION 11: Toxicological informat	ion
11.1. Information on toxicological effect	S
Acute toxicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
	: Not classified
Skin corrosion/irritation	
Additional information	: Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Respiratory or skin sensitisation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified
	Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
	: Not classified
Reproductive toxicity	
Additional information	: Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	: Not classified
Additional information	: Based on available data, the classification criteria are not met
	: Not classified
Specific target organ toxicity (repeated	
exposure)	
Additional information	: Based on available data, the classification criteria are not met
	: Not classified
Aspiration hazard	
Additional information	: Based on available data, the classification criteria are not met
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: Not expected to present a significant hazard under anticipated conditions of normal use.

Potential adverse human health effects and

symptoms		
SECTION	12: Ecological information	
12.1. To	oxicity	
Ecology - wa	ter	: Not classified.

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

RT Primer Pool	
Ecology - soil	Miscible with water.

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations

: Dispose in a safe manner in accordance with local/national regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number		
UN-No. (ADR)	: Not regulated	
UN-No. (IMDG)	: Not regulated	
UN-No. (IATA)	: Not regulated	
UN-No. (ADN)	: Not regulated	
UN-No. (RID)	: Not regulated	
14.2. UN proper shipping name		
Proper Shipping Name	: Not regulated	
Proper Shipping Name (IMDG)	: Not regulated	
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Proper Shipping Name (IATA)	: Not regulated
Proper Shipping Name (ADN)	: Not regulated
Proper Shipping Name (RID)	: Not regulated
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: Not regulated
IMDG	
Transport hazard class(es) (IMDG)	: Not regulated
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: Not regulated
ADN	
Transport hazard class(es) (ADN)	: Not regulated
RID	
Transport hazard class(es) (RID)	: Not regulated
14.4. Packing group	
Packing group	: Not regulated
Packing group (IMDG)	: Not regulated
Packing group (IATA)	: Not regulated
Packing group (ADN)	: Not regulated
Packing group (RID)	: Not regulated
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available

14.6. Special precautions for user

- Overland transport Not regulated

Not regulated

- Transport by sea Not regulated

- Air transport

Not regulated

- Inland waterway transport

Not regulated

- Rail transport

Not regulated

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

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Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:

Abbreviatio	ons and acronyms:
	ADR (Accord européen relatif au transport international des marchandises Dangereuses par Route)
	ATE (Acute Toxicity Estimate)
	CAS (Chemical Abstracts Service) number
	CLP (Classification, Labeling and Packaging)
	DNEL (Derived No effect Limit)
	EC (European Community)
	EC50 (Effective Concentration 50%)
	EN (European Norm)
	IARC (International Agency for Research on Cancer)
	IATA (International Air Transport Association)
	IBC (Intermediate Bulk Container)
	IMDG (International Maritime Dangerous Goods Code)
	IMO (International Maritime Organisation)
	LC50 (Lethal Concentration 50%)
	LD50 (Lethal Dose 50%)
	MAC (Maximal Allowed Concentration)
	O/W (Oil-in-Water (chemistry))
	OECD (Organisation for Economic Co-operation and Development)
	PBT (Persistent, Bioaccumulative and Toxic)
	PMcc (Pensky-Martens Closed Cup test)
	PNEC (Predicted No Effect Concentration)
	REACH (Registration, Evaluation and Authorisation of CHemicals)
	RID (Règlement concernant le transport international ferroviaire de marchandises)
	STEL (Short Term Exposure Limit)
	TWA (Time Weighted Average)
	UNxxxx (Number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods)
	vPvB (very Persistent and very Bioaccumulative)
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Data sources	: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
Other information	: None.

NCEC SDS EU BlackandWhite

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1.	Product identifier	
Product f	orm	: Mixture
Product r	ame	: 10X PCR Primers
Cat. no.		: BIO-66045

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Industrial/Professional use spec

Use of the substance/mixture

: Industrial use Professional use : Laboratory use

1.2.2. Uses advised against

No additional information available **1.3. Details of the supplier of the safety data sheet** Bioline Reagents Ltd. Humber Road London NW2 6EW United Kingdom

T: +44(0)20 8830 5300 Email: info.uk@bioline.com

1.4. Emergency telephone number Emergency number

: +44 (0) 1865 407 333 (UK, English speaking) (24 hours, 7 days)

SECTION 2: Hazards identification

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2.1. Classification of the substance or mixture
Classification according to Regulation (EC) No. 1272/2008 [CLP] Not
classified
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Adverse physicochemical, human health and environmental effects No additional information available

2.2. Label elements

No labelling obligation.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

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SECTION 3: Composition/information on ingredients

3.1.	3.1. Substance	
Not app	licable	

3.2. Mixture

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH annex II

	Description of first sid measures	
4.1. First-a	Description of first aid measures id measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
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First-a	id measures after inhalation	: Remove to fresh air, keep the patient warm and at rest. If symptoms persist, obtain medical attention.
First-a	id measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If symptoms develop, obtain medical attention.
First-a	id measures after eye contact	: Rinse immediately with plenty of water. Ensure that folded skin of eyelids is thoroughly washed with water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-a	id measures after ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth. Give 100 - 200 ml of water to drink. If symptoms develop, obtain medical attention.
	Indication of any immediate medica symptomatically. FION 5: Firefighting measures	al attention and special treatment needed
Treat SEC 5.1.	symptomatically. TION 5: Firefighting measures Extinguishing media Ie extinguishing media : Use extinguishi	al attention and special treatment needed ng media appropriate for surrounding fire. Unsuitable extinguishing media
Treat SEC 5.1.	symptomatically. FION 5: Firefighting measures Extinguishing media	
Treat SEC 5.1. Suitat	symptomatically. TION 5: Firefighting measures Extinguishing media le extinguishing media : Use extinguishing : None known. Special hazards arising from the su	ng media appropriate for surrounding fire. Unsuitable extinguishing media ubstance or mixture
Treat SEC 5.1. Suitat 5.2. Fire h	symptomatically. FION 5: Firefighting measures Extinguishing media le extinguishing media : Use extinguishing : None known. Special hazards arising from the su azard	ng media appropriate for surrounding fire. Unsuitable extinguishing media ubstance or mixture : Not flammable.
SEC 5.1. Suitat 5.2. Fire ha	symptomatically. TION 5: Firefighting measures Extinguishing media le extinguishing media : Use extinguishing : None known. Special hazards arising from the su	ng media appropriate for surrounding fire. Unsuitable extinguishing media ubstance or mixture
Treat SEC 5.1. Suitat 5.2. Fire h Hazar fire	symptomatically. FION 5: Firefighting measures Extinguishing media le extinguishing media : Use extinguishing : None known. Special hazards arising from the su azard	ng media appropriate for surrounding fire. Unsuitable extinguishing media ubstance or mixture : Not flammable.
Treat SEC 5.1. Suitat 5.2. Fire h Hazar fire 5.3.	symptomatically. FION 5: Firefighting measures Extinguishing media le extinguishing media : Use extinguishin : None known. Special hazards arising from the su azard dous decomposition products in case of	ng media appropriate for surrounding fire. Unsuitable extinguishing media ubstance or mixture : Not flammable.
Treat SEC 5.1. Suitat 5.2. Fire h Hazar fire 5.3. Firefig	symptomatically. FION 5: Firefighting measures Extinguishing media le extinguishing media : Use extinguishin : None known. Special hazards arising from the su azard dous decomposition products in case of Advice for firefighters	ng media appropriate for surrounding fire. Unsuitable extinguishing media ubstance or mixture : Not flammable. : None known. : Exercise caution when fighting any chemical fire. Avoid fire-fighting water entering the
Treat SEC 5.1. Suitab 5.2. Fire h Hazar fire 5.3. Firefig Protec	symptomatically. FION 5: Firefighting measures Extinguishing media le extinguishing media : Use extinguishing : None known. Special hazards arising from the su azard dous decomposition products in case of Advice for firefighters hting instructions	ng media appropriate for surrounding fire. Unsuitable extinguishing media ubstance or mixture : Not flammable. : None known. : Exercise caution when fighting any chemical fire. Avoid fire-fighting water entering the environment. : As in any fire, wear self-contained breathing apparatus and full protective gear.
Treat SEC 5.1. Suitat 5.2. Fire h Hazar fire 5.3. Firefig Protec	symptomatically. TION 5: Firefighting measures Extinguishing media le extinguishing media : Use extinguishing : None known. Special hazards arising from the sub- azard dous decomposition products in case of Advice for firefighters hting instructions tion during firefighting TION 6: Accidental release mean	ng media appropriate for surrounding fire. Unsuitable extinguishing media ubstance or mixture : Not flammable. : None known. : Exercise caution when fighting any chemical fire. Avoid fire-fighting water entering the environment. : As in any fire, wear self-contained breathing apparatus and full protective gear.
Treat SEC 5.1. Suitat 5.2. Fire ha Hazar fire 5.3. Firefig Protect	symptomatically. TION 5: Firefighting measures Extinguishing media le extinguishing media : Use extinguishing : None known. Special hazards arising from the sub- azard dous decomposition products in case of Advice for firefighters hting instructions tion during firefighting TION 6: Accidental release mean	ng media appropriate for surrounding fire. Unsuitable extinguishing media ubstance or mixture : Not flammable. : None known. : Exercise caution when fighting any chemical fire. Avoid fire-fighting water entering the environment. : As in any fire, wear self-contained breathing apparatus and full protective gear. ISURES

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Emergency procedures

: Evacuate unnecessary personnel. Avoid contact with skin, eyes and clothing.

6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing and gloves. Emergency procedures : Avoid contact with eyes, skin and clothing.

6.2. Environmental precautions

Notify authorities if large amounts of the product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Absorb with non-combustible material (sand or similar) and transfer to containers for later disposal.

6.4. Reference to other sections

SECTION 8: Exposure controls/personal protection. SECTION 13: Disposal considerations.

SECTION 7: Handling and storage

7.1. Precautions for safe han	Idling
Precautions for safe handling	: Provide adequate ventilation. Avoid contact with skin, eyes and clothing.
Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Take off contar clothing and wash before reuse. Wash hands and other exposed areas with mild soap water before eating, drinking or smoking and when leaving work.	
7.2. Conditions for safe stora	age, including any incompatibilities
Storage conditions	: Keep only in the original container in a cool well ventilated place. Keep container closed when not in use.
Incompatible materials	: Strong oxidizing agents.
7.3. Specific end use(s)	

Laboratory use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls:

Provide adequate ventilation.

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear protective gloves. Standard EN 374 - Protective gloves against chemicals. The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed. Gloves should be removed and replaced if there are any signs of degradation or breakthrough

Eye protection:

Wear safety glasses with side shields. Standard EN 166 - Personal eye-protection

Skin and body protection:

Long sleeved protective clothing

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Respiratory protection:

Not required for normal conditions of use

Thermal hazard protection:

Not required for normal conditions of use.

Other information:

Do not eat, drink or smoke during use. Handle in accordance with good industrial hygiene and safety procedures.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and cl	namical properties	
Physical state	: Solid (Lyophilised)	
Colour	:	
Odour	Colourless.	
Odour threshold	Odourless.	
рН	No data available : No data available	
Relative evaporation rate (butylacetate=1)	No data available No data available	
Melting point	: No data available	
Freezing point	: No data available	
Boiling point	: Not applicable.	
Flash point Auto-ignition temperature	No data available	
Decomposition temperature	No data available	
Flammability (solid, gas)	No data available	
Vapour pressure	Not applicable :	
	No data available	
Relative vapour density at 20 °C Relative density	: No data available :	
Solubility	≈ 1 (Water = 1) :	
Log Pow	Water: Miscible	
Viscosity, kinematic	No data available : No data available	
Viscosity, dynamic	No data available	
Explosive properties	: Not explosive.	
Oxidising properties	: No data available	
Explosive limits	: EN (English)	4/10
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No data available

9.2.	Other information
No add	litional information available
SECT	ION 10: Stability and reactivity
10.1.	Reactivity
Stable	under normal conditions.
Slable	
10.2.	Chamical stability
	Chemical stability
Stable	under normal conditions.
10.3.	Possibility of hazardous reactions
None k	nown.
10.4.	Conditions to avoid
Extrem	ely high or low temperatures.
10.5.	Incomnotible motoriale
	Incompatible materials
Strong	oxidizing agents.
10.6.	Hazardous decomposition products
None k	

SECTION 11: Toxicological informat	on
11.1. Information on toxicological effect	
Acute toxicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
	: Not classified
Skin corrosion/irritation	
Additional information	: Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Respiratory or skin sensitisation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified
	Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
	: Not classified
Reproductive toxicity	
Additional information	: Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	: Not classified
Additional information	: Based on available data, the classification criteria are not met
	: Not classified
Specific target organ toxicity (repeated	
exposure)	
Additional information	: Based on available data, the classification criteria are not met
	: Not classified
Aspiration hazard	
Additional information	: Based on available data, the classification criteria are not met
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: Not expected to present a significant hazard under anticipated conditions of normal use.

Potential adverse human health effects and

symptoms		
SECTION 12: Ecological inform	ation	
12.1. Toxicity		
Ecology - water	: Not classified.	

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

10X PCR Primers	
Ecology - soil	Miscible with water.

12.5. Results of PBT and vPvB assessment 10X PCR Primers This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations

: Dispose in a safe manner in accordance with local/national regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number		
UN-No. (ADR)	: Not regulated	
UN-No. (IMDG)	: Not regulated	
UN-No. (IATA)	: Not regulated	
UN-No. (ADN)	: Not regulated	
UN-No. (RID)	: Not regulated	
14.2. UN proper shipping nam	e	
Proper Shipping Name	: Not regulated	
Proper Shipping Name	: Not regulated	
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Proper Shipping Name (IATA)	: Not regulated
Proper Shipping Name (ADN)	: Not regulated
Proper Shipping Name (RID)	: Not regulated
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: Not regulated
IMDG	
Transport hazard class(es) (IMDG)	: Not regulated
IATA	
Transport hazard class(es) (IATA)	: Not regulated
ADN	
Transport hazard class(es) (ADN)	: Not regulated
RID	
Transport hazard class(es) (RID)	: Not regulated
14.4. Packing group	
Packing group	: Not regulated
Packing group (IMDG)	: Not regulated
Packing group (IATA)	: Not regulated
Packing group (ADN)	: Not regulated
Packing group (RID)	: Not regulated
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available

14.6. Special precautions for user

- Overland transport Not regulated

- Transport by sea Not regulated

- Air transport

Not regulated

- Inland waterway transport

Not regulated

- Rail transport

Not regulated

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code Not applicable

SECTION 15: Regulatory information

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

15.1.1. **EU-Regulations**

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Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:

Abbreviatio	ns and acronyms:
	ADR (Accord européen relatif au transport international des marchandises Dangereuses par Route)
	ATE (Acute Toxicity Estimate)
	CAS (Chemical Abstracts Service) number
	CLP (Classification, Labeling and Packaging)
	DNEL (Derived No effect Limit)
	EC (European Community)
	EC50 (Effective Concentration 50%)
	EN (European Norm)
	IARC (International Agency for Research on Cancer)
	IATA (International Air Transport Association)
	IBC (Intermediate Bulk Container)
	IMDG (International Maritime Dangerous Goods Code)
	IMO (International Maritime Organisation)
	LC50 (Lethal Concentration 50%)
	LD50 (Lethal Dose 50%)
	MAC (Maximal Allowed Concentration)
	O/W (Oil-in-Water (chemistry))
	OECD (Organisation for Economic Co-operation and Development)
	PBT (Persistent, Bioaccumulative and Toxic)
	PMcc (Pensky-Martens Closed Cup test)
	PNEC (Predicted No Effect Concentration)
	REACH (Registration, Evaluation and Authorisation of CHemicals)
	RID (Règlement concernant le transport international ferroviaire de marchandises)
	STEL (Short Term Exposure Limit)
	TWA (Time Weighted Average)
	UNxxxx (Number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods)
	vPvB (very Persistent and very Bioaccumulative)

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Data sources	: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
Other information	: None.

NCEC SDS EU BlackandWhite

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier	
Product form	: Mixture
Product name	: EPIK RT Buffer
Cat. no.	: BIO-66045

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Industrial/Professional use spec

Use of the substance/mixture

: Industrial use Professional use : Buffer solution

1.2.2. Uses advised against

No additional information available **1.3. Details of the supplier of the safety data sheet** Bioline Reagents Ltd. Humber Road London NW2 6EW United Kingdom T: +44(0)20 8830 5300 Email: info.uk@bioline.com

1.4.	Emergency telephone number	
Emerger	ncy number	: +44 (0) 1865 407 333 (UK, English speaking) (24 hours, 7 days)

SECTION 2: Hazards identification

2.1.	Classification of the substance or mixture
Classifica	ation according to Regulation (EC) No. 1272/2008 [CLP] Not
classified	

Adverse physicochemical, human health and environmental effects No additional information available

2.2. Label elements

No labelling obligation.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

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SECTION 3: Composition/information on ingredients

3.1. Subs Substance

3.2. Mixture

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH annex II

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
12/4/2016	EN (English) 1/
First-aid measures after inhalation	: Remove to fresh air, keep the patient warm and at rest. If symptoms persist, obtain medical attention.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed b warm water rinse. If symptoms develop, obtain medical attention.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Ensure that folded skin of eyelids is thoroughly washed with water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth. Give 100 - 200 ml of water to drink. If symptoms develop, obtain medical attention.
SECTION 5: Firefighting measures	
5.1. Extinguishing media	ing media appropriate for surrounding fire. Unsuitable extinguishing media
5.1. Extinguishing media	ing media appropriate for surrounding fire. Unsuitable extinguishing media
 5.1. Extinguishing media Suitable extinguishing media : Use extinguish : None known. 5.2. Special hazards arising from the s 	
 5.1. Extinguishing media Suitable extinguishing media : Use extinguish : None known. 5.2. Special hazards arising from the serie hazard Hazardous decomposition products in case of 	ubstance or mixture
 5.1. Extinguishing media Suitable extinguishing media : Use extinguish : None known. 5.2. Special hazards arising from the s Fire hazard Hazardous decomposition products in case of ire 	ubstance or mixture : Not flammable.
 5.1. Extinguishing media Suitable extinguishing media : Use extinguish : None known. 5.2. Special hazards arising from the serie hazard Hazardous decomposition products in case of ire 5.3. Advice for firefighters 	ubstance or mixture : Not flammable.
 5.1. Extinguishing media Suitable extinguishing media : Use extinguish : None known. 5.2. Special hazards arising from the serier hazard Hazardous decomposition products in case of fire 5.3. Advice for firefighters Firefighting instructions 	 ubstance or mixture Not flammable. Carbon monoxide. Carbon dioxide. Sulphur oxides. Exercise caution when fighting any chemical fire. Avoid fire-fighting water entering the
 5.1. Extinguishing media Suitable extinguishing media : Use extinguish : None known. 5.2. Special hazards arising from the s Fire hazard Hazardous decomposition products in case of fire 5.3. Advice for firefighters Firefighting instructions Protection during firefighting 	 ubstance or mixture Not flammable. Carbon monoxide. Carbon dioxide. Sulphur oxides. Exercise caution when fighting any chemical fire. Avoid fire-fighting water entering the environment. As in any fire, wear self-contained breathing apparatus and full protective gear.
 5.1. Extinguishing media Suitable extinguishing media : Use extinguish : None known. 5.2. Special hazards arising from the s Fire hazard Hazardous decomposition products in case of fire 5.3. Advice for firefighters Firefighting instructions Protection during firefighting SECTION 6: Accidental release media 6.1. Personal precautions, protective explanation 	 ubstance or mixture Not flammable. Carbon monoxide. Carbon dioxide. Sulphur oxides. Exercise caution when fighting any chemical fire. Avoid fire-fighting water entering the environment. As in any fire, wear self-contained breathing apparatus and full protective gear.
 5.1. Extinguishing media Suitable extinguishing media : Use extinguish : None known. 5.2. Special hazards arising from the s Fire hazard Hazardous decomposition products in case of fire 5.3. Advice for firefighters Firefighting instructions Protection during firefighting SECTION 6: Accidental release meta 	 ubstance or mixture Not flammable. Carbon monoxide. Carbon dioxide. Sulphur oxides. Exercise caution when fighting any chemical fire. Avoid fire-fighting water entering the environment. As in any fire, wear self-contained breathing apparatus and full protective gear.

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6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing and gloves. Emergency procedures : Avoid contact with eyes, skin and clothing.

6.2.	Environmental precautions		
Notify authorities if large amounts of the product enters sewers or public waters.			
6.3.	Methods and material for conta		
Method	s for cleaning up	: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.	
6.4.	Reference to other sections		
SECTIO	ON 8: Exposure controls/personal pro	otection. SECTION 13: Disposal considerations.	
SECT	ION 7: Handling and storag	e	
7.1.	Precautions for safe handling		
Precaut	ions for safe handling	: Provide adequate ventilation. Avoid contact with skin, eyes and clothing.	
Hygiene	e measures	: Handle in accordance with good industrial hygiene and safety practice. Take off contaminated clothing and wash before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.	
7.2.	Conditions for safe storage, inc	luding any incompatibilities	
Storage	conditions	: Keep only in the original container in a cool well ventilated place. Keep container closed when not in use.	
Incomp	atible materials	: Acid chlorides. Phosphorus halides. Strong acids. Strong oxidizing agents. Strong reducing agents.	
7.3.	Specific end use(s)		
Buffer s	olution.		
SECT	ION 8: Exposure controls/p	ersonal protection	
8.1.	Control parameters		

No additional information available

8.2. Exposure controls

Appropriate engineering controls:

Provide adequate ventilation.

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear protective gloves. Standard EN 374 - Protective gloves against chemicals. The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed. Gloves should be removed and replaced if there are any signs of degradation or breakthrough

Eye protection:

Wear safety glasses with side shields. Standard EN 166 - Personal eye-protection

Skin and body protection:

Long sleeved protective clothing

Respiratory protection:

Not required for normal conditions of use 11/04/2017

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Thermal hazard protection:

Not required for normal conditions of use.

Other information:

Do not eat, drink or smoke during use. Handle in accordance with good industrial hygiene and safety procedures.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and cl	
Physical state	: Liquid
Colour	
Odour	Colourless.
Odour threshold	Odourless.
рН	No data available
Relative evaporation rate (butylacetate=1)	No data available
Melting point	No data available
Freezing point	No data available
Boiling point	No data available
Flash point	Not applicable.
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability (solid, gas)	No data available
Vapour pressure	Not applicable
Relative vapour density at 20 °C	No data available
Relative density	No data available
Solubility	≈ 1 (Water = 1)
Log Pow	Water: Miscible
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available
Explosive properties	No data available
Oxidising properties	Not explosive.
Explosive limits	No data available
	No data available

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9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Extremely high or low temperatures.

10.5. Incompatible materials

Acid chlorides. Phosphorus halides. Strong acids. Strong oxidizing agents. Strong reducing agents.

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. Sulphur oxides.

SECTION 11: Toxicological information			
11.1. Information on toxicological effect	s		
Acute toxicity	: Not classified		
Additional information	: Based on available data, the classification criteria are not met		
	: Not classified		
Skin corrosion/irritation			
Additional information	: Based on available data, the classification criteria are not met		
Serious eye damage/irritation	: Not classified		
Additional information	: Based on available data, the classification criteria are not met		
Respiratory or skin sensitisation	: Not classified		
Additional information	: Based on available data, the classification criteria are not met		
Germ cell mutagenicity	: Not classified		
	Based on available data, the classification criteria are not met		
Carcinogenicity	: Not classified		
Additional information	: Based on available data, the classification criteria are not met		
	: Not classified		
Reproductive toxicity			
Additional information	: Based on available data, the classification criteria are not met		
Specific target organ toxicity (single exposure)	: Not classified		
Additional information	: Based on available data, the classification criteria are not met		
	: Not classified		
Specific target organ toxicity (repeated exposure)			
Additional information	: Based on available data, the classification criteria are not met		
	: Not classified		
Aspiration hazard			
Additional information	: Based on available data, the classification criteria are not met		
	: Not expected to present a significant hazard under anticipated conditions of normal use.		

Potential adverse human health effects and symptoms

SECTION 12: Ecological information			
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12.1.	Toxicity		
Ecology -	- water	: Not classified.	
LCOIOgy -	- water	. Not dassineu.	
12.2.	Persistence and degradability		
No additi	ional information available		
12.3.	Bioaccumulative potential		
No additi	ional information available		
12.4.	Mobility in soil		
EPIK R	RT Buffer		
Ecology	y - soil	Miscible with water.	
40 5			
12.5.	Results of PBT and vPvB assessment		
	EPIK RT Buffer		
I his su	bstance/mixture does not meet the PBT cr	iteria of REACH regulation, annex XIII	

TransAmp Buffer

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EPIK RT Buffer

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations		
13.1. Waste treatment methods		
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.	

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number		
UN-No. (ADR)	: Not regulated	
UN-No. (IMDG)	: Not regulated	
UN-No. (IATA)	: Not regulated	
UN-No. (ADN)	: Not regulated	
UN-No. (RID)	: Not regulated	
14.2. UN proper shipping name		
Proper Shipping Name	: Not regulated	
Proper Shipping Name (IMDG)	: Not regulated	
Proper Shipping Name (IATA)	: Not regulated	
Proper Shipping Name (ADN)	: Not regulated	
Proper Shipping Name (RID)	: Not regulated	
14.3. Transport hazard class(es)		
ADR		
Transport hazard class(es) (ADR)	: Not regulated	
IMDG		
Transport hazard class(es) (IMDG)	: Not regulated	
ΙΑΤΑ		
Transport hazard class(es) (IATA)	: Not regulated	
ADN	:	
Transport hazard class(es) (ADN)	Not regulated	
RID		
Transport hazard class(es) (RID)	: Not regulated	
14.4. Packing group		
Packing group	: Not regulated	
Packing group (IMDG)	: Not regulated	
Packing group (IATA)	: Not regulated	
Packing group (ADN)	: Not regulated	
Packing group (RID)	: Not regulated	
	-	
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14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available

14.6. Special precautions for user

- Overland transport

Not regulated

- Transport by sea

Not regulated

- Air transport

Not regulated

- Inland waterway transport

Not regulated

- Rail transport

Not regulated

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code Not applicable

SECTION 15: Regulatory information

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

15.1.1. **EU-Regulations**

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. **Chemical safety assessment**

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:

	ADR (Accord européen relatif au transport international des marchandises Dangereuses par Route)	
	ATE (Acute Toxicity Estimate)	
	CAS (Chemical Abstracts Service) number	
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CLP (Classification, Labeling and Packaging)
DNEL (Derived No effect Limit)
EC (European Community)
EC50 (Effective Concentration 50%)
EN (European Norm)
IARC (International Agency for Research on Cancer)
IATA (International Air Transport Association)
IBC (Intermediate Bulk Container)
IMDG (International Maritime Dangerous Goods Code)
IMO (International Maritime Organisation)
LC50 (Lethal Concentration 50%)
LD50 (Lethal Dose 50%)
MAC (Maximal Allowed Concentration)
O/W (Oil-in-Water (chemistry))
OECD (Organisation for Economic Co-operation and Development)
PBT (Persistent, Bioaccumulative and Toxic)
PMcc (Pensky-Martens Closed Cup test)
PNEC (Predicted No Effect Concentration)
REACH (Registration, Evaluation and Authorisation of CHemicals)
RID (Règlement concernant le transport international ferroviaire de marchandises)
STEL (Short Term Exposure Limit)
TWA (Time Weighted Average)
UNxxxx (Number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods)
vPvB (very Persistent and very Bioaccumulative)

Data sources

 REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
 None.

Other information

NCEC SDS EU BlackandWhite

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 11/04/2017 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1.	Product identifier	
Product f	orm	: Mixture
Product r	name	: EPIK RT Enzyme
Cat. no.		: BIO-66045

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Industrial/Professional use spec	: Industrial use Professional use
Use of the substance/mixture	: Laboratory use

1.2.2. Uses advised against

No additional information available **1.3. Details of the supplier of the safety data sheet** Bioline Reagents Ltd. Humber Road London NW2 6EW United Kingdom T: +44(0)20 8830 5300 Email: info.uk@bioline.com

1.4	. Emergency telephone numbe	r
Em	ergency number	: +44 (0) 1865 407

: +44 (0) 1865 407 333 (UK, English speaking) (24 hours, 7 days)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture Classification according to Regulation (EC) No. 1272/2008 [CLP] Not

classified

Adverse physicochemical, human health and environmental effects No additional information available

2.2. Label elements

No labelling obligation.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

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SECTION 3: Composition/information on ingredients

3.1.	Substance			
Not appli	licable			

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Glycerol	(CAS No) 56-81-5 (EC No.) 200-289-5	40 - 60	Not classified

11/04/2017

EN (English)

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Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures	S		
First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).		
First-aid measures after inhalation	: Remove to fresh air, keep the patient warm and at rest. If symptoms persist, obtain medical attention.		
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If symptoms develop, obtain medical attention.		
First-aid measures after eye contact	: Rinse immediately with plenty of water. Ensure that folded skin of eyelids is thoroughly washed with water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.		
First-aid measures after ingestion	: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth. Give 100 - 200 ml of water to drink. If symptoms develop, obtain medical attention.		
4.2. Most important symptoms and effects, both acute and delayed			
Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use. Symptoms/injuries after eye contact			

: May cause slight irritation to eyes.

4.3. Indication of any immediate medical attention and special treatment needed Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire. Unsuitable extinguishing media : None known.

Fire hazard : Not flammable. Hazardous decomposition products in case of : None known. fire

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5.3. Advice for firefighters	
Firefighting instructions	: Exercise caution when fighting any chemical fire. Avoid fire-fighting water entering the environment.
Protection during firefighting	: As in any fire, wear self-contained breathing apparatus and full protective gear.
SECTION 6: Accidental release meas	sures
6.1. Personal precautions, protective eq	uipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel. Avoid contact with skin, eyes and clothing.
6.1.2. For emergency responders	
Protective equipment : Wear suitable pro	otective clothing and gloves. Emergency procedures : Avoid
contact with eyes, skin and clothing.	
6.2. Environmental precautions	
Notify authorities if large amounts of the product	enters sewers or public waters.
6.3. Methods and material for containme	
Methods for cleaning up	: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
6.4. Reference to other sections	
SECTION 8: Exposure controls/personal protection	on. SECTION 13: Disposal considerations.
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Provide adequate ventilation. Avoid contact with skin, eyes and clothing.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice. Take off contaminated clothing and wash before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2. Conditions for safe storage, includir	ng any incompatibilities
Storage conditions	: Keep only in the original container in a cool well ventilated place. Keep container closed when not in use.
Incompatible materials	: Strong acids. Strong alkalis.
7.3. Specific end use(s)	
Laboratory use.	

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Glycerol (56-81-5)		
United Kingdom	Local name	Glycerol
United Kingdom	WEL TWA (mg/m³)	10 mg/m³ mist
Australia	Local name	Glycerin mist
Australia	TWA (mg/m³)	10 mg/m³
Australia	Remark (AU)	(a)

8.2. Exposure controls Appropriate engineering controls:

Appropriate engineering collito

Provide adequate ventilation.

Personal protective equipment:

Avoid all unnecessary exposure.

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Hand protection:

Wear protective gloves. Standard EN 374 - Protective gloves against chemicals. The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed. Gloves should be removed and replaced if there are any signs of degradation or breakthrough

Eye protection:

Wear safety glasses with side shields. Standard EN 166 - Personal eye-protection

Skin and body protection:

Long sleeved protective clothing

Respiratory protection:

Not required for normal conditions of use

Thermal hazard protection:

Not required for normal conditions of use.

Other information:

Do not eat, drink or smoke during use. Handle in accordance with good industrial hygiene and safety procedures.

SECTION 9: Physical and chemical properties

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and ch		
Physical state	: Liquid	
Colour		
Odour	Colourless.	
Odour threshold	Odourless.	
рН	No data available	
Relative evaporation rate (butylacetate=1)	No data available	
Melting point	No data available	
Freezing point	No data available	
Boiling point	No data available	
Flash point	Not applicable.	
Auto-ignition temperature	No data available	
	No data available	
	No data available	
Flammability (solid, gas)	Not applicable	
Vapour pressure	No data available	
Relative vapour density at 20 °C	: No data available	
Relative density	: ≈ 1 (Water = 1)	

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Solubility	: Water: Miscible
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Not explosive.
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTI	ON 10: Stability and reactivity
10.1.	Reactivity
Stable u	nder normal conditions.
10.2.	Chemical stability
Stable u	nder normal conditions.
10.3.	Possibility of hazardous reactions
None kn	iown.
10.4.	Conditions to avoid
Extreme	ly high or low temperatures.
10.5.	Incompatible materials
Strong a	ncids. Strong alkalis.
10.6.	Hazardous decomposition products

None known.

SECTION 11: Toxicological information		
11.1. Information on toxicological effects		
Acute toxicity	: Not classified	
Additional information	: Based on available data, the classification criteria are not met	

Glycerol (56-81-5)	
LD50 oral rat	27200 mg/kg
LD50 dermal	56750 mg/kg (Guinea pig)
LC50 inhalation rat (mg/l)	> 2.75 mg/l/4h
Skin corrosion/irritation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Respiratory or skin sensitisation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified
	Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Reproductive toxicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Specific target organ toxicity (repeated exposure) Additional information	: Not classified : Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified
Additional information	: Based on available data, the classification criteria are not met

Potential adverse human health effects and	: Not expected to present a significant hazard under anticipated conditions of normal	
symptoms	use.	
SECTION 12: Ecological information		

12.1. Toxicity	
Ecology - water	: Not classified.
Glycerol (56-81-5)	

Persistence and degradability 12.2.

No additional information available

Bioaccumulative potential 12.3.

No additional information available

12.4.	Mobility in soil	
EPIK RT Enzyme		
Ecology	/ - soil	Miscible with water.

12.5.	Results of PBT and vPvB assessment	
EPIK RT Enzyme		
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII		
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII		

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal consideration	S
13.1. Waste treatment methods	
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.
SECTION 14: Transport information	

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

14.1. UN number	
	. Not regulated
UN-No. (ADR)	: Not regulated
UN-No. (IMDG)	: Not regulated
UN-No. (IATA)	: Not regulated
UN-No. (ADN) UN-No. (RID)	: Not regulated : Not regulated
	. Not regulated
14.2. UN proper shipping n	name
Proper Shipping Name	: Not regulated
Proper Shipping Name (IMDG)	: Not regulated
Proper Shipping Name (IATA)	: Not regulated
Proper Shipping Name (ADN)	: Not regulated
Proper Shipping Name (RID)	: Not regulated
14.3. Transport hazard clas	ss(es)
ADR	
Transport hazard class(es) (ADR	t) : Not regulated
IMDG	
Transport hazard class(es) (IMD)	G) : Not regulated
ΙΑΤΑ	
Transport hazard class(es) (IATA	A) : Not regulated
ADN	
Transport hazard class(es) (ADN	I) : Not regulated
RID	
Transport hazard class(es) (RID)	: Not regulated
14.4. Packing group	
Packing group	: Not regulated
Packing group (IMDG)	: Not regulated
Packing group (IATA)	: Not regulated
	~
Packing group (ADN)	: Not regulated
Packing group (RID)	: Not regulated
14.5. Environmental hazard	ds
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available

14.6. Special precautions for user

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

- Overland transport

Not regulated

- Transport by sea Not regulated

- Air transport Not regulated

- Inland waterway transport

Not regulated

- Rail transport Not regulated

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list \ge 0,1 % / SCL

Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment No chemical safety assessment has been carried out

SECTION 16: Other information

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

ADR (Accord européen relatif au transport international des marchandises Dangereuses par Route)
ATE (Acute Toxicity Estimate)
CAS (Chemical Abstracts Service) number
CLP (Classification, Labeling and Packaging)
DNEL (Derived No effect Limit)
EC (European Community)
EC50 (Effective Concentration 50%)
EN (European Norm)
IARC (International Agency for Research on Cancer)
IATA (International Air Transport Association)
IBC (Intermediate Bulk Container)
IMDG (International Maritime Dangerous Goods Code)
IMO (International Maritime Organisation)
LC50 (Lethal Concentration 50%)
LD50 (Lethal Dose 50%)
MAC (Maximal Allowed Concentration)
O/W (Oil-in-Water (chemistry))
OECD (Organisation for Economic Co-operation and Development)
PBT (Persistent, Bioaccumulative and Toxic)
PMcc (Pensky-Martens Closed Cup test)
PNEC (Predicted No Effect Concentration)
REACH (Registration, Evaluation and Authorisation of CHemicals)
RID (Règlement concernant le transport international ferroviaire de marchandises)
STEL (Short Term Exposure Limit)
TWA (Time Weighted Average)
UNxxxx (Number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods)
 vPvB (very Persistent and very Bioaccumulative)

Data sources

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information

: None.

NCEC SDS EU BlackandWhite

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 11/04/2017 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1.	Product identifier	
Product f	form	: Mixture
Product i Cat. no.	name	: 2 x SensiSmart SYBR MasterMix : BIO-66045

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Industrial/Professional use spec

Use of the substance/mixture

: Industrial use Professional use : Laboratory use

1.2.2. Uses advised against

No additional information available **1.3. Details of the supplier of the safety data sheet** Bioline Reagents Ltd. Humber Road London NW2 6EW United Kingdom T: +44(0)20 8830 5300 Email: info.uk@bioline.com

1.4. Emergency telephone number	
Emergency number	: +44 (0) 1865 407 333 (UK, English speaking)
	(24 hours, 7 days)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture Classification according to Regulation (EC) No. 1272/2008 [CLP] Not classified

Adverse physicochemical, human health and environmental effects No additional information available

2.2. Label elements

No labelling obligation.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 3: Composition/information on ingredients

3.1. Substance Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Glycerol	(CAS No) 56-81-5 (EC No.) 200-289-5	1 - 3	Not classified

Full text of H-statements: see section 16

12/4/2016	EN (English)	1/7
SECTION 4: First aid measures		
4.1. Description of first aid measures		
First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical (show the label where possible).	advice
First-aid measures after inhalation	: Remove to fresh air, keep the patient warm and at rest. If symptoms persist, obtain medic attention.	cal
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, follow warm water rinse. If symptoms develop, obtain medical attention.	wed by
First-aid measures after eye contact	: Rinse immediately with plenty of water. Ensure that folded skin of eyelids is thoroughly wa with water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irr persists: Get medical advice/attention.	
First-aid measures after ingestion	: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth. Give 100 - 200 ml of water to drink. If symptoms develop, obtain medical attentio	
: May cause slight irritation to eyes.	significant hazard under anticipated conditions of normal use. Symptoms/injuries after eye co	ontact
4.3. Indication of any immediate medica Treat symptomatically.	al attention and special treatment needed	
SECTION 5: Firefighting measures		
5.1. Extinguishing media Suitable extinguishing media : Use extinguishin : None known.	ng media appropriate for surrounding fire. Unsuitable extinguishing media	
5.2. Special hazards arising from the su Fire hazard	bstance or mixture : Not flammable.	
Hazardous decomposition products in case of fire	: Carbon monoxide. Carbon dioxide. Sulphur oxides.	
5.3. Advice for firefighters		
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Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Firefighting instructions	: Exercise caution when fighting any chemical fire. Avoid fire-fighting water entering the environment.
Protection during firefighting : As in any fire, wear self-contained breathing apparatus and full protective gear.	
SECTION 6: Accidental release meas	sures
6.1. Personal precautions, protective eq 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment Emergency procedures	 ippment and emergency procedures Evacuate unnecessary personnel. Avoid contact with skin, eyes and clothing. Wear suitable protective clothing and gloves. Avoid contact with eyes, skin and clothing.
6.2. Environmental precautions	
Notify authorities if large amounts of the product	enters sewers or public waters.
6.3. Methods and material for containme Methods for cleaning up	 and cleaning up Absorb with non-combustible material (sand or similar) and transfer to containers for later disposal.
6.4. Reference to other sections SECTION 8: Exposure controls/personal protection	on. SECTION 13: Disposal considerations.
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Provide adequate ventilation. Avoid contact with skin, eyes and clothing.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice. Take off contaminated clothing and wash before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2. Conditions for safe storage, including	
Storage conditions	: Keep only in the original container in a cool well ventilated place. Keep container closed when not in use.
Incompatible materials	: Acid chlorides. Phosphorus halides. Strong acids. Strong oxidizing agents. Strong reducing agents.
7.3. Specific end use(s)	

Laboratory use.

E.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Glycerol (56-81-5)			
United Kingdom	Local name	Glycerol	
United Kingdom	WEL TWA (mg/m ³)	10 mg/m ³ mist	
Australia	Local name	Glycerin mist	
Australia	TWA (mg/m³)	10 mg/m³	
Australia	Remark (AU)	(a)	

8.2. Exposure controls

Appropriate engineering controls:

Provide adequate ventilation.

Personal protective equipment:

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Hand protection:

Wear protective gloves. Standard EN 374 - Protective gloves against chemicals. The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed. Gloves should be removed and replaced if there are any signs of degradation or breakthrough

Eye protection:

Wear safety glasses with side shields. Standard EN 166 - Personal eye-protection

Skin and body protection:

Long sleeved protective clothing

Respiratory protection:

Not required for normal conditions of use

Thermal hazard protection:

Not required for normal conditions of use.

Other information:

Do not eat, drink or smoke during use. Handle in accordance with good industrial hygiene and safety procedures.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties		
Physical state	: Liquid	
Colour	:	
Odour	Colourless.	
Odour threshold	Odourless.	
pН	No data available	
Relative evaporation rate (butylacetate=1)	No data available	
Melting point	No data available	
Freezing point	No data available	
Boiling point	No data available	
Flash point	Not applicable.	
Auto-ignition temperature	No data available	
Decomposition temperature	No data available : No data available	
Flammability (solid, gas)	Not applicable	
Vapour pressure	Not applicable No data available	
Relative vapour density at 20 °C	: No data available	
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Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Relative density	:
Solubility	≈ 1 (Water = 1)
Columny	Water: Miscible
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Not explosive.
Oxidising properties	: No data available
Explosive limits	: No data available

Other information 9.2.

No additional information available

SECTION 10: Stability and reactivity

Reactivity 10.1.

Stable under normal conditions.

Chemical stability 10.2.

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None known.

Conditions to avoid 10.4.

Extremely high or low temperatures.

10.5. Incompatible materials

Acid chlorides. Phosphorus halides. Strong acids. Strong oxidizing agents. Strong reducing agents.

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. Sulphur oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects	
Acute toxicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met

Glycerol (56-81-5)					
LD50 oral rat	27200 mg/kg				
LD50 dermal 56750 mg/kg (Guinea pig)					
LC50 inhalation rat (mg/l)	> 2.75 mg/l/4h				
Skin corrosion/irritation	: Not classified				
Additional information	: Based on available data, the classification criteria are not met				
Serious eye damage/irritation	: Not classified	Not classified			
Additional information : Based on available data, the classification criteria are not met					
Respiratory or skin sensitisation : Not classified					
Additional information : Based on available data, the classification criteria are not met					
Germ cell mutagenicity	: Not classified				
	Based on available data, the classification criteria are not met				
Carcinogenicity	: Not classified				
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Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Additional information	: Based on available data, the classification criteria are not met
Reproductive toxicity Additional information Specific target organ toxicity (single exposure) Additional information	: Not classified : Based on available data, the classification criteria are not met : Not classified : Based on available data, the classification criteria are not met
Specific target organ toxicity (repeated exposure) Additional information	: Not classified : Based on available data, the classification criteria are not met
Aspiration hazard Additional information	: Not classified : Based on available data, the classification criteria are not met
Potential adverse human health effects and symptoms SECTION 12: Ecological information	: Not expected to present a significant hazard under anticipated conditions of normal use.

12.1. Toxicity	
Ecology - water	: Not classified.
Glycerol (56-81-5)	
LC50 fish	54000 mg/l 96 Hours (Salmo gairdneri)

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil				
2 x SensiSmart SYBR MasterMix				
Ecology - soil	Miscible with water.			

12.5. Results of PBT and vPvB assessment	
2 x SensiSmart SYBR MasterMix	
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII	
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations				
13.1. Waste treatment methods				
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.			

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number	
UN-No. (ADR)	: Not regulated
UN-No. (IMDG)	: Not regulated
UN-No. (IATA)	: Not regulated
UN-No. (ADN)	: Not regulated
UN-No. (RID)	: Not regulated
14.2. UN proper shipping name	
Proper Shipping Name	: Not regulated
Proper Shipping Name (IMDG)	: Not regulated
Proper Shipping Name (IATA)	: Not regulated
Proper Shipping Name (ADN)	: Not regulated
Proper Shipping Name (RID)	: Not regulated
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: Not regulated
IMDG	
Transport hazard class(es) (IMDG)	: Not regulated
	u u u u u u u u u u u u u u u u u u u
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: Not regulated
ADN	
Transport hazard class(es) (ADN)	: Not regulated
RID	
Transport hazard class(es) (RID)	: Not regulated
11.1 Decking group	
14.4. Packing group	
Packing group	: Not regulated
Packing group (IMDG)	: Not regulated
Packing group (IATA)	: Not regulated
Packing group (ADN)	: Not regulated
Packing group (RID)	: Not regulated
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available
	. No supportentary information available

14.6. Special precautions for user

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

- Overland transport

Not regulated

- Transport by sea Not regulated

- Air transport Not regulated

- Inland waterway transport Not regulated

- Rail transport Not regulated

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list \ge 0,1 % / SCL

Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

ADR (Accord européen relatif au transport international des marchandises Dangereuses par Route)
ATE (Acute Toxicity Estimate)
CAS (Chemical Abstracts Service) number
CLP (Classification, Labeling and Packaging)
DNEL (Derived No effect Limit)
EC (European Community)
EC50 (Effective Concentration 50%)
EN (European Norm)
IARC (International Agency for Research on Cancer)
IATA (International Air Transport Association)
IBC (Intermediate Bulk Container)
IMDG (International Maritime Dangerous Goods Code)
IMO (International Maritime Organisation)
LC50 (Lethal Concentration 50%)
LD50 (Lethal Dose 50%)
 MAC (Maximal Allowed Concentration)
O/W (Oil-in-Water (chemistry))
OECD (Organisation for Economic Co-operation and Development)
PBT (Persistent, Bioaccumulative and Toxic)
PMcc (Pensky-Martens Closed Cup test)
PNEC (Predicted No Effect Concentration)
REACH (Registration, Evaluation and Authorisation of CHemicals)
RID (Règlement concernant le transport international ferroviaire de marchandises)
STEL (Short Term Exposure Limit)
TWA (Time Weighted Average)
UNxxxx (Number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods)
vPvB (very Persistent and very Bioaccumulative)

Data sources

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information

: None.

NCEC SDS EU BlackandWhite

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 7/12/2016 Revision date: 9/20/2016 Supersedes: 7/12/2016 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier	
Product form	: Substance
Substance name	: DEPC-H2O
EC No.	: 231-791-2
CAS No	: 7732-18-5
Cat. no.	: BIO-66045

REACH authorisation exemptions

Exempted from REACH registration

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Industrial/Professional use spec

: Industrial use Professional use

Use of the substance/mixture

: Laboratory use

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Bioline Reagents Ltd. Humber Road London NW2 6EW United Kingdom T: +44(0)20 8830 5300 Email: info.uk@bioline.com

1.4. Emergency telephone number

Emergency number

: +44 (0) 1865 407 333 (UK, English speaking) (24 hours, 7 days)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

No labelling obligation.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substance				
Name	Product identifier	%		
DEPC-H2O	(CAS No) 7732-18-5 (EC No.) 231-791-2	100		

Full text of H-phrases: see section 16

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

3.2.	Mixture	
Not app	olicable	
RECT	ION 4. First sid massures	
	ION 4: First aid measures	
4.1. First-aid	Description of first aid measures	: Not expected to present a significant hazard under anticipated conditions of normal use.
4.2.	5	
	Most important symptoms and effect ms/injuries	: Not expected to present a significant hazard under anticipated conditions of normal use.
4.3. Troot o	•	l attention and special treatment needed
-	ymptomatically.	
SECT	ION 5: Firefighting measures	
5.1.	Extinguishing media	
	e extinguishing media	: Use extinguishing media appropriate for surrounding fire.
Unsuita	ble extinguishing media	: None known.
5.2.	Special hazards arising from the su	bstance or mixture
Fire haz		: Not flammable.
	ous decomposition products in case of	: None.
fire		
5.3.	Advice for firefighters	
	ting instructions	: Fight fire with normal precautions from a reasonable distance.
Protecti	on during firefighting	: As in any fire, wear self-contained breathing apparatus and full protective gear.
SECT	ION 6: Accidental release meas	sures
6.1.	Personal precautions, protective eq	uipment and emergency procedures
6.1.1.	For non-emergency personnel	
	• • •	· Not applicable
Emerge	ency procedures	: Not applicable.
Emerge 6.1.2.	For emergency responders	
Emerge 6.1.2. Protecti	For emergency responders ve equipment	: Not normally required.
Emerge 6.1.2. Protecti	For emergency responders	
Emerge 6.1.2. Protecti Emerge	For emergency responders ve equipment	: Not normally required.
Emerge 6.1.2. Protecti Emerge 6.2.	ency procedures For emergency responders we equipment ency procedures	: Not normally required.
Emerge 6.1.2. Protecti Emerge 6.2.	For emergency responders ve equipment ency procedures Environmental precautions	Not normally required.Not applicable.
Emerge 6.1.2. Protecti Emerge 6.2. Not nor 6.3.	For emergency responders ve equipment ency procedures Environmental precautions mally required.	Not normally required.Not applicable.
Emerge 6.1.2. Protecti Emerge 6.2. Not nor 6.3.	ency procedures For emergency responders we equipment ency procedures Environmental precautions mally required. Methods and material for containmet	 Not normally required. Not applicable.
Emerge 6.1.2. Protecti Emerge 6.2. Not nor 6.3. Method	ency procedures For emergency responders we equipment ency procedures Environmental precautions mally required. Methods and material for containmet	 Not normally required. Not applicable. ent and cleaning up Absorb with earth, sand or other non-combustible material and transfer to containers for later
Emerge 6.1.2. Protecti Emerge 6.2. Not nor 6.3. Method 6.4.	For emergency responders ve equipment ency procedures Environmental precautions mally required. Methods and material for containments s for cleaning up Reference to other sections	 Not normally required. Not applicable. ent and cleaning up Absorb with earth, sand or other non-combustible material and transfer to containers for later
Emerge 6.1.2. Protecti Emerge 6.2. Not nor 6.3. Method 6.4. SECTIO	ency procedures For emergency responders we equipment ency procedures Environmental precautions mally required. Methods and material for containme s for cleaning up Reference to other sections DN 8: Exposure controls/personal protection	 Not normally required. Not applicable. ent and cleaning up Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
Emerge 6.1.2. Protecti Emerge 6.2. Not nor 6.3. Method 6.4. SECTIO	For emergency responders ve equipment ency procedures Environmental precautions mally required. Methods and material for containments s for cleaning up Reference to other sections	 Not normally required. Not applicable. ent and cleaning up Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
Emerge 6.1.2. Protecti Emerge 6.2. Not nor 6.3. Method 6.4. SECTIO SECTIO	For emergency responders Ve equipment ency procedures Environmental precautions mally required. Methods and material for containments s for cleaning up Reference to other sections DN 8: Exposure controls/personal protections ION 7: Handling and storage	 Not normally required. Not applicable. ent and cleaning up Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
Emerge 6.1.2. Protecti Emerge 6.2. Not nor 6.3. Method 6.4. SECTIC SECTIC SECTIC SECTIC Precaut	For emergency responders ve equipment ency procedures Environmental precautions mally required. Methods and material for containments s for cleaning up Reference to other sections DN 8: Exposure controls/personal protections ION 7: Handling and storage Precautions for safe handling	 Not normally required. Not applicable. ent and cleaning up Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. ion. SECTION 13: Disposal considerations. No special requirements. Handle in accordance with good industrial hygiene and safety practice. Wash hands and oth
Emerge 6.1.2. Protecti Emerge 6.2. Not nor 6.3. Method 6.4. SECTIC SECTIC SECTIC Frecaut Hygiene	Ency procedures For emergency responders we equipment ency procedures Environmental precautions mally required. Methods and material for containme s for cleaning up Reference to other sections DN 8: Exposure controls/personal protecti ION 7: Handling and storage Precautions for safe handling e measures	 Not normally required. Not applicable. ent and cleaning up Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. ion. SECTION 13: Disposal considerations. : No special requirements. : Handle in accordance with good industrial hygiene and safety practice. Wash hands and oth exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
Emerge 6.1.2. Protecti Emerge 6.2. Not nor 6.3. Method 6.4. SECTIC SECTIC SECTIC 7.1. Precaut Hygiene	For emergency responders ve equipment ency procedures Environmental precautions mally required. Methods and material for containment s for cleaning up Reference to other sections DN 8: Exposure controls/personal protections ION 7: Handling and storage Precautions for safe handling tions for safe handling	 Not normally required. Not applicable. ent and cleaning up Absorb with earth, sand or other non-combustible material and transfer to containers for late disposal. ion. SECTION 13: Disposal considerations. i No special requirements. Handle in accordance with good industrial hygiene and safety practice. Wash hands and oth exposed areas with mild soap and water before eating, drinking or smoking and when leavin work. ng any incompatibilities Keep only in the original container in a cool well ventilated place. Keep container closed when
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No additional information available

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8.2. Exposure controls

Appropriate engineering controls:

Not required for normal conditions of use.

Personal protective equipment:

Not required for normal conditions of use.

Hand protection:

Not required for normal conditions of use

Eye protection:

Not required for normal conditions of use

Skin and body protection:

Not required for normal conditions of use

Respiratory protection:

Not required for normal conditions of use

Thermal hazard protection:

Not required for normal conditions of use.

Other information:

Handle in accordance with good industrial hygiene and safety procedures.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

9.1. Information on basic physical and c	ie	mical properties
Physical state	:	Liquid
Colour	:	Colourless.
Odour	:	Odourless.
Odour threshold	:	No data available
рН	:	No data available
Relative evaporation rate (butylacetate=1)	:	No data available
Melting point	:	No data available
Freezing point	:	≈ 0 °C
Boiling point	:	≈ 100 °C
Flash point	:	Not applicable
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	Not applicable
Flammability (solid, gas)	:	Not applicable
Vapour pressure	:	No data available
Relative vapour density at 20 °C	:	No data available
Relative density	:	≈ 1 (Water = 1)
Solubility	:	Water: Miscible
Log Pow	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosive properties	:	Not explosive.
Oxidising properties	:	Not oxidising.
Explosive limits	:	No data available

9.2. Other information

No additional information available

SECTIO	N 10: Stability and reactivity
10.1.	Reactivity
Stable und	der normal conditions.
10.2.	Chemical stability
Stable und	der normal conditions.

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10.3.	Possibility of hazardous reactions	
None k	None known.	
10.4.	Conditions to avoid	
None known.		
10.5.	Incompatible materials	
Water reactive materials.		
10.6.	Hazardous decomposition products	
None.		

11.1. Information on toxicological effects	
Acute toxicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Skin corrosion/irritation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Respiratory or skin sensitisation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified
	Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Specific target organ toxicity (repeated exposure)	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Potential adverse human health effects and symptoms	: Not expected to present a significant hazard under anticipated conditions of normal use.

SECTI	SECTION 12: Ecological information	
12.1.	Toxicity	
Ecology	- water	: Not classified.

12.2.	Persistence and degradability		
DEPC-	H2O (7732-18-5)		
Persist	ence and degradability	Not applicable.	
12.3.	Bioaccumulative potential		
DEPC-	H2O (7732-18-5)		
Bioaccu	umulative potential	Not applicable.	
12.4.	Mobility in soil		
DEPC-	H2O (7732-18-5)		
Ecolog	y - soil	Miscible with water.	
12.5.	Results of PBT and vPvB assessment		
DEPC-H2O (7732-18-5)			
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII			
This su	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII		

12.6. Other adverse effects	
Other adverse effects	: None.
SECTION 13: Disposal consider	ations
13.1.Waste treatment methodsWaste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
-	
SECTION 14: Transport informa	
In accordance with ADR / RID / IMDG / IAT	A / ADN
14.1. UN number	
UN-No. (ADR)	: Not regulated
UN-No. (IMDG)	: Not regulated
UN-No. (IATA)	: Not regulated
UN-No. (ADN)	: Not regulated
UN-No. (RID)	: Not regulated
14.2. UN proper shipping name	
Proper Shipping Name	: Not regulated
Proper Shipping Name (IMDG)	: Not regulated
Proper Shipping Name (IATA) Proper Shipping Name (ADN)	: Not regulated : Not regulated
Proper Shipping Name (RID)	: Not regulated
14.3. Transport hazard class(es) ADR	
Transport hazard class(es) (ADR)	: Not regulated
MDG	
Transport hazard class(es) (IMDG)	: Not regulated
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: Not regulated
ADN	
Transport hazard class(es) (ADN)	: Not regulated
RID	
Transport hazard class(es) (RID)	: Not regulated
Packing group Packing group	: Not regulated
Packing group (IMDG)	: Not regulated
Packing group (IATA)	: Not regulated
Packing group (ADN)	: Not regulated
Packing group (RID)	: Not regulated
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available
14.6. Special precautions for user	
- Overland transport	
Not regulated	

- Air transport

DEPC-H2O

Not regulated

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- Inland waterway transport

Not regulated

- Rail transport

Not regulated

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

DEPC-H2O is not on the REACH Candidate List

DEPC-H2O is not on the REACH Annex XIV List

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

ndication of cha	Product identifier Modified		
bbreviations ar			
	ADR (Accord européen relatif au transport international des marchandises Dangereuses par Route)		
	ADK (Accord europeen relatin au transport international des marchandises Dangeredses par Koute)		
	CAS (Chemical Abstracts Service) number		
	CLP (Classification, Labeling and Packaging)		
	DNEL (Derived No effect Limit)		
	EC (European Community)		
	EC50 (Effective Concentration 50%)		
	ECSO (Ellective Concentration 30 %) EN (European Norm)		
	IARC (International Agency for Research on Cancer)		
	IATA (International Air Transport Association)		
	IBC (Intermediate Bulk Container)		
	IMDG (International Maritime Dangerous Goods Code)		
	IMO (International Maritime Organisation)		
	LC50 (Lethal Concentration 50%)		
	LD50 (Lethal Dose 50%)		
	MAC (Maximal Allowed Concentration)		
	O/W (Oil-in-Water (chemistry))		
	OECD (Organisation for Economic Co-operation and Development)		
	PBT (Persistent, Bioaccumulative and Toxic)		
	PMcc (Pensky-Martens Closed Cup test)		
	PNEC (Predicted No Effect Concentration)		
	REACH (Registration, Evaluation and Authorisation of CHemicals)		
	RID (Règlement concernant le transport international ferroviaire de marchandises)		
	STEL (Short Term Exposure Limit)		
	TWA (Time Weighted Average)		
	UNxxxx (Number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods)		
	vPvB (very Persistent and very Bioaccumulative)		
ata sources	: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending December 2009		

Other information

: None.

Regulation (EC) No 1907/2006.

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

NCEC SDS EU BlackandWhite

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product