BIO-66046

EPIK miRNA Select Hi-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 form : Mixture

Product name : RT Primer Pool

Cat. no. : BIO-66036, BIO-66034, BIO-66031, BIO-66035, BIO-66033, BIO-66031,

BIO-66040, BIO-66032, BIO-66039, BIO-66037, BIO-66042, BIO-66038, 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 : 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

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

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 meas	sures
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) 1/7
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.

5.2. Special hazards arising from the substance or mixture

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

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 measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

12/4/2016 EN (English) 2/10

Safety Data Sheet

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

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, 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

12/4/2016 EN (English) 3/10

Safety Data Sheet

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

Respiratory protection:

Not required for normal conditions of use

Thermal hazard protection:

Not required for normal conditions of use.

Other information:

Explosive properties

Oxidising properties

Explosive limits

12/4/2016

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

9.1. Information on basic physical and Physical state	: Solid (Lyophilised)
Colour	: cond (Lyophinoca)
	Colourless.
Odour	:
Odaur throabald	Odourless.
Odour threshold	No data available
рН	:
	No data available
Relative evaporation rate (butylacetate=1)	:
Melting point	No data available :
	No data available
Freezing point	:
Boiling point	No data available
	Not applicable.
Flash point	:
Auto-ignition temperature	No data available
Auto-ignition temperature	No data available
Decomposition temperature	:
Flormability (colid gas)	No data available
Flammability (solid, gas)	Not applicable
Vapour pressure	Not applicable :
	No data available
Relative vapour density at 20 °C	: No data available
Relative density	:
	≈ 1 (Water = 1)
Solubility	:
Log Pow	Water: Miscible
•	No data available
Viscosity, kinematic	:
Viscosity, dynamic	No data available
viscosity, dynamic	No data available
For to above an anaday	i vo data avallable

Not explosive.

EN (English)

No data available

4/10

Safety Data Sheet

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

No data available

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

Strong oxidizing agents.

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

: 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

12/4/2016 EN (English) 5/10

Safety Data Sheet

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

: 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. 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

RT Primer Pool	
Ecology - soil	Miscible with water.

12.5. Results of PBT and vPvB assessment

RT Primer Pool

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 UN-No. (RID)

14.2. UN proper shipping name

Proper Shipping Name	: Not regulated
Proper Shipping Name (IMDG)	: Not regulated
10/4/0016	EN (English)

12/4/2016 EN (English) 6/10

Safety Data Sheet

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

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

12/4/2016 EN (English) 7/10

Safety Data Sheet

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

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
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)

12/4/2016 EN (English) 8/10

Safety Data Sheet

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

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

12/4/2016 EN (English) 9/10

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

12/4/2016 EN (English) 10/10



Safety Data Sheet

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

Date of issue: 11/04/2016 Version: 1.0

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

1.1. Product identifier

Product form : Mixture

Product name : 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 : 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

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

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 measure	es
First-ai	d measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
12/4/20	16	EN (English) 1/7
First-ai	id measures after inhalation	: Remove to fresh air, keep the patient warm and at rest. If symptoms persist, obtain medical attention.
First-ai	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-ai	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-ai	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.

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.

5.2. Special hazards arising from the substance or mixture

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

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 measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

11/04/2016 EN (English) 2/10

Safety Data Sheet

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

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, 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

12/4/2016 EN (English) 3/10

Safety Data Sheet

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

Respiratory protection:

Not required for normal conditions of use

Thermal hazard protection:

Not required for normal conditions of use.

Other information:

Explosive properties

Oxidising properties

Explosive limits

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

9.1. Information on basic physical and	chemical properties
Physical state	: Solid (Lyophilised)
Colour	:
	Colourless.
Odour	:
Odour threshold	Odourless.
Oddur tilleshold	No data available
рΗ	:
	No data available
Relative evaporation rate (butylacetate=1)	:
Melting point	No data available
meterig point	No data available
Freezing point	:
	No data available
Boiling point	:
Flash point	Not applicable.
i idon point	No data available
Auto-ignition temperature	:
	No data available
Decomposition temperature	:
Flammability (solid, gas)	No data available :
, (· · · , g-· ·)	Not applicable
Vapour pressure	
	No data available
Relative vapour density at 20 °C	: No data available
Relative density	:
	≈ 1 (Water = 1)
Solubility	: , , ,
Log Dow	Water: Miscible
Log Pow	. No data available
Viscosity, kinematic	No data available :
-	No data available
Viscosity, dynamic	

11/04/2016 EN (English) 4/10

No data available

No data available

Not explosive.

Safety Data Sheet

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

No data available

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

Strong oxidizing agents.

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

: 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

11/04/2016 EN (English) 5/10

Safety Data Sheet

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

: 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. 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 name

Proper Shipping Name : Not regulated
Proper Shipping Name : Not regulated

(MDC) : TN (Facility)

(IMDG) EN (English) 6/10

Safety Data Sheet

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

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

11/04/2016 EN (English) 7/10

Safety Data Sheet

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

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:

 no and dolonymo.
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)

11/04/2016 EN (English) 8/10

Safety Data Sheet

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

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

11/04/2016 EN (English) 9/10

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

11/04/2016 EN (English) 10/10



Safety Data Sheet

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

Date of issue: 11/04/2107 Version: 1.0

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-66036, BIO-66034, BIO-66041, BIO-66035, BIO-66033, BIO-66031, BIO-66040,

BIO-66032, BIO-66039, BIO-66037, BIO-66042, BIO-66038, 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 : Industrial use Professional use Use of the substance/mixture : 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

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

Substance 3.1.

Not applicable

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 measure	es
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) 1/7
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.

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

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire. Unsuitable extinguishing media

: None known.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Not flammable.

Hazardous decomposition products in case of fire

: Carbon monoxide. Carbon dioxide. Sulphur oxides.

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 measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel 6.1.1.

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

11/04/2017

2/9

Safety Data Sheet

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

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

agents.

7.3. Specific end use(s)

Buffer solution.

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

Respiratory protection:

Not required for normal conditions of use

11/04/2017 EN (English) 3/9

Safety Data Sheet

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

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

11/04/2017 EN (English) 4/9

Safety Data Sheet

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

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 effects

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

11/04/2017 EN (English) 5/9

Safety Data Sheet

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

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

EPIK RT Buffer

Ecology - soil Miscible with water.

12.5. Results of PBT and vPvB assessment

EPIK RT Buffer

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

11/04/2016 EN (English) 6/9

TransAmp Buffer

Safety Data Sheet

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

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 UN-No. (RID)

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

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 Packing group (RID) : Not regulated

11/04/2017 EN (English) 7/9

TransAmp Buffer

Safety Data Sheet

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

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

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:

 abort material action y more	
	ADR (Accord européen relatif au transport international des marchandises Dangereuses par Route)
	ATE (Acute Toxicity Estimate)
	CAS (Chemical Abstracts Service) number

- 11/04/2017 EN (English) 8/9

TransAmp Buffer

Safety Data Sheet

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

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

- 11/04/2016 EN (English) 9/9



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 form : Mixture

Product name : EPIK RT Enzyme

Cat. no. : BIO-66036, BIO-66034, BIO-66035, BIO-66033, BIO-66031, BIO-66040,

BIO-66032, BIO-66039, BIO-66037, BIO-66042, BIO-66038, 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 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	40 - 60	Not classified

11/04/2017 EN (English) 1/7

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice First-aid measures general (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

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.

: Rinse immediately with plenty of water. Ensure that folded skin of eyelids is thoroughly washed First-aid measures after eye contact

with water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation

persists: Get medical advice/attention.

: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse First-aid measures after ingestion

mouth. Give 100 - 200 ml of water to drink. If symptoms develop, obtain medical attention.

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.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire. Unsuitable extinguishing media

: None known.

5.2. Special hazards arising from the substance or mixture

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

11/04/2017 EN (English) 2/10

Safety Data Sheet

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

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 measures

6.1. Personal precautions, protective equipment 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 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 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. 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 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:

Provide adequate ventilation.

Personal protective equipment:

Avoid all unnecessary exposure.

11/04/2017 EN (English) 3/10

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 propertie

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and o	chemical properties	
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	
	No data available	
Relative density	: ≈ 1 (Water = 1)	
11/04/2017	EN (English)	4/10

Safety Data Sheet

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

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

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

Strong acids. 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

11/04/2017 EN (English) 5/10

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)

: 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 : 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)	
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 soi	I
-----------------------	---

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 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

11/04/2017 EN (English) 6/10

Safety Data Sheet

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

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 UN-No. (RID)

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

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

11/04/2017 EN (English) 7/10

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 ≥ 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

11/04/2017 EN (English) 8/10

Safety Data Sheet

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

Abbreviations 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)
 ·

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

11/04/2017 EN (English) 9/10

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

11/04/2017 EN (English) 10/10



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 form : Mixture

Product name : 2 x SensiSmart SYBR MasterMix

Cat. no. : BIO-66036, BIO-66034, BIO-66035, BIO-66033, BIO-66031, BIO-66040,

BIO-66032, BIO-66039, BIO-66037, BIO-66042, BIO-66038, 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 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

: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice First-aid measures general (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

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.

: Rinse immediately with plenty of water. Ensure that folded skin of eyelids is thoroughly washed First-aid measures after eye contact

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.

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

Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire. Unsuitable extinguishing media

: None known.

Special hazards arising from the substance or mixture 5.2.

Fire hazard : Not flammable.

Hazardous decomposition products in case of : Carbon monoxide. Carbon dioxide. Sulphur oxides.

fire

5.3. Advice for firefighters

11/04/2017 EN (English) 2/10

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 measures

6.1. Personal precautions, protective equipment 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 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, 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 : Acid chlorides. Phosphorus halides. Strong acids. Strong oxidizing agents. Strong reducing

agents.

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:

Provide adequate ventilation.

Personal protective equipment:

Avoid all unnecessary exposure.

11/04/2017 EN (English) 3/10

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:

Relative vapour density at 20 °C

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

Do not eat, units of smoke during use. Handle	e in accordance with good industrial hygiene and safety procedures.
SECTION 9: Physical and chemica	l properties
 Information on basic physical and Physical state 	d chemical properties : Liquid
Colour	. Liquiu
	Colourless.
Odour	:
	Odourless.
Odour threshold	:
nl.	No data available
pH	No data available
Relative evaporation rate (butylacetate=1)	ino data available
	No data available
Melting point	:
	No data available
Freezing point	:
Boiling point	No data available
Zoming point	Not applicable.
Flash point	:
	No data available
Auto-ignition temperature	:
Decemberation temperature	No data available
Decomposition temperature	No data available
Flammability (solid, gas)	:
, , , , , , , , , , , , , , , , , , ,	Not applicable
Vapour pressure	:
	No data available

11/04/2017 EN (English) 4/10

No data available

Safety Data Sheet

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

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 : No data available

Explosive limits : No data available

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 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

11/04/2017 EN (English) 5/10

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 : 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 : Not expected to present a significant hazard under anticipated conditions of normal

symptoms

SECTION 12: Ecological information

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.	Mo	bility	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.

11/04/2017 EN (English) 6/10

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	num	ber
-------	----	-----	-----

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 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

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

11/04/2017 EN (English) 7/10

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 ≥ 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

11/04/2017 EN (English) 8/10

Safety Data Sheet

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

Abbreviations 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)

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

11/04/2017 EN (English) 9/10

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

11/04/2017 EN (English) 10/10



Sarety □ata Sheet

according to egulation (EC) No 190 2006 (EAC) eith its a end ent egulation (E) 2015 80

□ate o □issue: □12 2016 □evision date: 9 20 2016 Su □ersedes: □12 2016 □ersion: 1 1

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

1.1. Product identifier

 Product [or □]
 : Su □ stance

 Su □ stance na □ e
 : □ EPC □ 2 □

 EC No □
 : 2 □ 1 □ 91 □ 2

 CAS No
 : □ □ 2 □ 18 □ 5

Catino : BI 65042, BI 65040, BI 65049, BI 65049, BI 2001, BI 2005, BI 2001, BI

005, BI 4001, BI 5001, BI 5001, BI 5001, BI 6001, BI 6005, BI 6001, BI 6005, BI 6001, BI 6005, BI 6001, BI 6001

BI = 005, BI = 8001, BI = 8005, CSA 01201

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

1.2.1. Relevant identified uses

Industrial Pro essional use s ec : Industrial use

Pro essional use

□se o the su stance iture : □a oratory use

1.2.2. Uses advised against

No additional in or ation availa le

1.3. Details of the supplier of the safety data sheet

Bioline (Aust) Pty Itd

Suite 111, National Innovation Centre Building Australian Technology Park, Eveleigh, NSW 2015

Australia

Phone: +61 (0)2 9209 4180

a +61 (0)2 9209 46

E ail: tech ioline co

1.4. Emergency telephone number

E□ ergency nu□ □er : +61 2 8014 4558 (Australia) (24 hours, □ 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 in or ation availa le

2.2. Label elements

No la elling o ligation □

2.3. Other hazards

This sustance iture does not eet the PBT criteria o EAC regulation, anne III This sustance iture does not eet the vPvB criteria o EAC regulation, anne III

SECTION 3: Composition/information on ingredients

3.1. Substance

Name	Product identifier	%
□EPC:□2□	(CAS No.) □□□21815 (EC No.) 2□1 □91□2	100

□ull te t o □□ □ hrases: see section 16

Sarety □ata Sheet

according to □egulation (EC) No□190□2006 (□EAC□) □ith its a□end□ent □egulation (E□) 2015 8□0

3.2. Mixture

Not a⊡lica⊟e

SECTION 4: First aid measures

4.1. Description of first aid measures

□irst⊺aid □ easures general : Not e □ected to □resent a significant ha□ard under antici□ated conditions o □nor□ al use □

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

Sy□ to□ s'iniūries : Not e □ected to □resent a significant ha□ard under antici□ated conditions o □nor□ al use □

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

Treat sy □ to □ atically □

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suita ☐ e e tinguishing ☐ edia : ☐ se e tinguishing ☐ edia a ☐ ro ☐ riate ☐ or surrounding ☐ re ☐

□nsuita□e e tinguishing □ edia : None kno □n □

5.2. Special hazards arising from the substance or mixture

ire ha ard : Not fa □ a □e □

□a□ardous deco□ □osition □roducts in case o□ : None□

iire

5.3. Advice for firefighters

□ ight ire □ ith nor □ al □ recautions □ reasona □ e distance □

Protection during @reathing a □aratus and @ll □rotective gear □

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

E□ ergency □rocedures : Not a□□lica□e□

6.1.2. For emergency responders

Protective e □i □ ent : Not nor □ ally re □uired □ E □ ergency □rocedures : Not a □ □ica □e □

6.2. Environmental precautions

Not nor ally re uired □

6.3. Methods and material for containment and cleaning up

Methods or cleaning u□ : A□sor□□ith earth, sand or other non oo□□usti□e □ aterial and transor to containers or later

dis⊡osal□

6.4. Reference to other sections

SECTION 8: Ecosure controls erroral crotection SECTION 10: Ois osal considerations

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : No sfecial refuire ents

□ygiene □ easures : □andle in accordance □ith good industrial hygiene and salety □ractice□Wash hands and other

e □osed areas □ith □ild soa □ and □ater □e ore eating, drinking or s □ oking and □hen leaving

□ork□

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : □ee□only in the original container in a cool □ell ventilated □ace□ee□ container closed □hen

not in use□

Inco□ □ati□le □ aterials : Water reactive □ aterials□

7.3. Specific end use(s)

□a □oratory use □

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional in or ation availa le

12:4:2016 EN (English) 2:...

Sarety □ata Sheet

according to □egulation (EC) No□190□2006 (□EAC□) □ith its a□end□ent □egulation (E□) 2015®□0

8.2. Exposure controls

Appropriate engineering controls:

Not re uired or nor al conditions o use □

Personal protective equipment:

Not re uired or nor al conditions o use □

Hand protection:

Not re uired or nor al conditions o use

Eye protection:

Not re uired or nor al conditions o use

Skin and body protection:

Not re uired or nor al conditions o use

Respiratory protection:

Not re uired or nor al conditions o use

Thermal hazard protection:

Not re uired or nor al conditions o use □

Other information:

□andle in accordance □ith good industrial hygiene and sa@ty □rocedures□

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : □□uid

Colour : Colourless□
□dour : □dourless□
□dour threshold : No data availa□e
□□ : No data availa□e
□elative eva□oration rate (□utylacetate□1) : No data availa□e

Melting □oint : No data availa□e

□ree ing □oint : ≈0°C Boiling □oint : ≈ 100 °C □lash □oint : Not a□□ica□e Autotignition te □ □ erature : Not a□□ica□e □eco□ □osition te□ □erature : Not a□□ica□e : Not a□□ica□e □la□ □ a □ility (solid, gas) : No data availa □e □a□our □ressure □elative va □our density at 20 □C : No data availa □e □elative density ≈ 1 (Water = 1) Solu⊡lity : Water: Misci □e □og Po□ : No data availa □e : No data availa □e □iscosity, kine □ atic □iscosity, dyna □ic : No data availa □e E⊞losive □ro□erties : Not e □ osive □ □ □dising □ro□erties : Not o idising

9.2. Other information

No additional in or ation availa le

SECTION 10: Stability and reactivity

10.1. Reactivity

E⊡losive li□ its

Sta ☐ e under nor ☐ al conditions ☐

10.2. Chemical stability

Sta ☐ e under nor ☐ al conditions ☐

12:4:2016 EN (English)

: No data availa □e

Sarety □ata Sheet

according to □egulation (EC) No□190□2006 (□EAC□) □ith its a□end□ent □egulation (E□) 2015®□0

10.3. Possibility of hazardous reactions

None kno □n □

10.4. Conditions to avoid

None kno □n □

10.5. Incompatible materials

Water reactive □ aterials □

10.6. Hazardous decomposition products

None□

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute to licity : Not classified

Additional in or ation : Based on availa le data, the classi ication criteria are not let

Skin corrosion irritation : Not classified

Additional in or ation : Based on availa le data, the classi ication criteria are not let

Serious eye da ☐ age firritation : Not classified

Additional in lor □ ation : Based on availa □e data, the classi iication criteria are not □ et

□es ☐iratory or skin sensitisation : Not classified

Additional in or □ ation : Based on availa □le data, the classi rication criteria are not □ et

□er□ cell □utagenicity : Not classified

Based on availa ☐e data, the classification criteria are not ☐ et

Carcinogenicity : Not classified

Additional in or ation : Based on availa de data, the classification criteria are not det

□e□roductive to□icity : Not classified

Additional in or □ ation : Based on availa □e data, the classi @cation criteria are not □ et

S □ecitic target organ to □city (single e □osure) : Not classified

Additional in or ation : Based on availa le data, the classitication criteria are not let

S⊡eci⊡c target organ to⊡city (re⊡eated

e⊡osure)

: Not classified

Additional in or ation : Based on availa le data, the classi îcation criteria are not let

As iration ha ard : Not classified

Additional in or □ ation : Based on availa □e data, the classi ication criteria are not □ et

Potential adverse hu□ an health e ects and

sy□ ⊡to□ s

: Not e □ected to □resent a significant ha ard under antici ated conditions o □nor al use □

SECTION 12: Ecological information

12.1. Toxicity

Ecology □□ater : Not classified □

12.2. Persistence and degradability

DEPC-H2O (7732-18-5)	
Persistence and degrada ility	Not a □□lica □e □

12.3. Bioaccumulative potential

DEPC-H2O (7732-18-5)		
Bioaccu□ ulative □otential	Not a ⊡ica ☐e □	

12.4. Mobility in soil

DEPC-H2O (7732-18-5)		
Ecology	Misci⊡e □ith □ater□	

12.5 Results of PRT and vPvR assessment

1.00.110 0.1.2.1 4.1.4 1.1.2 4.0000				
DEPC-H2O (7732-18-5)				
This su□stancei⊓ture does not □ eet the PBT criteria o□□EAC□ regulation, anne□□III				
This su⊡stance⊞i⊏ture does not □ eet the vPvB criteria o□□EAC□ regulation, anne□□III				

12:4:2016 EN (English) 4....

Sa ety □ata Sheet

according to \square egulation (EC) No \square 190 \square 2006 (\square EAC \square) \square ith its a \square end \square ent \square egulation (E \square) 2015 \square 8 \square 0

12.6. Other adverse effects

□ ther adverse e lects : None □

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste dis osal reco o endations : ose in a sale oanner in accordance oith local national regulations o

SECTION 14: Transport information

In accordance ith A all III IM III IATA AN

14.1. UN number

 □N No □ (A□□)
 : Not regulated

 □N No □ (IM□□)
 : Not regulated

 □N No □ (IATA)
 : Not regulated

 □N No □ (A□N)
 : Not regulated

 □N No □ (□□)
 : Not regulated

14.2. UN proper shipping name

Proler Shilling Nale : Not regulated Proler Shilling Nale (IMI) : Not regulated Proler Shilling Nale (IATA) : Not regulated Proler Shilling Nale (IATA) : Not regulated Proler Shilling Nale (III) : Not regulated Proler Shilling Nale (III) : Not regulated

14.3. Transport hazard class(es)

ADR

Trans ort ha ard class(es) (A□□) : Not regulated

IMDG

Trans ort ha ard class(es) (IM) : Not regulated

IATA

Trans ort ha ard class(es) (IATA) : Not regulated

ADN

Trans \Box ort ha \Box ard class(es) (A \Box N) : Not regulated

RID

Trans ort ha ard class(es) (□I□) : Not regulated

14.4. Packing group

Packing grou□ : Not regulated Packing grou□(IM□□) : Not regulated Packing grou□(IATA) : Not regulated Packing grou□(A□N) : Not regulated Packing grou□(□□□) : Not regulated Packing grou□(□□□) : Not regulated

14.5. Environmental hazards

□ angerous or the environ □ ent : No
Marine □ ollutant : No

□ ther in or □ ation : No su □ le □ entary in or □ ation availa □ le

14.6. Special precautions for user

- Overland transport

Not regulated

- Transport by sea

Not regulated

- Air transport

Not regulated

Sa ety □ata Sheet

according to \square egulation (EC) No \square 190 \square 2006 (\square EAC \square) \square ith its a \square end \square ent \square egulation (E \square) 2015 \square 8 \square 0

- 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 a□□ica□e

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No DEACD Anned DII restrictions
DEPC D2 is not on the DEACD Candidate Dist
DEPC D2 is not on the DEACD Anned DID Dist

15.1.2. National regulations

No additional in or ation availa le

15.2. Chemical safety assessment

No che ☐ ical sa ety assess ☐ ent has ☐ een carried out

SECTION 16: Other information

Indication o⊡changes:								
1		Product identi∏er	Modified					
A⊡reviations and a	A⊡reviations and acrony□s:							
	A□□ (Accord euro□en relati□au trans□ort international des □archandises □angereuses □ar □oute)							
	ATE (Acute To⊡city Esti□ ate)							
	CAS (Che□ical A⊡stracts Service) nu□ □er							
	C⊡P (Classification, □a⊡eling and Packaging)							
	□NE□(□erived No e□ect □□it)							
	EC (Euro ean Co unity)							
	EC50 (E⊡ective Concentration 50□)							
	EN (Euro □ean Nor □)							
	IA□C (International Agency for □esearch on Cancer)							
	IATA (International Air Trans ort Association)							
	IBC (Inter□ ediate Bulk Container)							
	IM□□ (International Mariti□ e □angerous □oods Code)							
	IM□ (International Mariti□e □rganisation)							
	□C50 (□ethal Concentration 50□)							
	□□50 (□ethal □ose 50□)							
	MAC (Ma i □ al Allo □ed Concentration)							
	□\W (□il\unin\water (che□istry))							
	□EC□ (□rganisation lor Econo□ic Colo□eration and □evelo□□ent)							
	PBT (Persistent, Bioaccu□ ulative and To⊡c)							
	PMcc (Pensky⊡Martens Closed Cu□test)							
	PNEC (Predicted No E dect Concentration)							
	□EAC□ (□egistration, Evaluation and Authorisation o□C□e□icals)							
	□I□ (□□gle□ent concernant le trans□ort international □erroviaire de □ archandises)							
	STE□(Short Ter□ E⊡osure ⊡i□it)							

□N□□□□ (Nu□ □er assigned □y the □nited Nations Co□ □ ittee o□E□□erts on the Trans□ort o□□angerous □oods)

□ ther in or □ ation : None □

TWA (Ti □ e Weighted Average)

vPvB (very Persistent and very Bioaccu□ulative)

Sarety □ata Sheet

according to \square egulation (EC) No \square 190 \square 2006 (\square EAC \square) \square ith its a \square end \square ent \square egulation (E \square) 2015 \square 8 \square 0

NCEC S□S E□ 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

12/4/2016 EN (English)