

ENCES G-Biosciences, St Louis, MO, USA | 1-800-628-7730 | 1-314-991-6034 | technical@GBiosciences.com

A Geno Technology, Inc. (USA) brand name

Safety Data Sheet

Cat. # BTNM-0032

EcoRI enzyme, 5000 U, with 10X reaction buffer

Size: 5,000U





EcoRI enzyme

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Revision date: 5/11/2017

SECTION 1: Identification of the substan	ce/mixture and of the company	/undertaking	9
1.1. Product identifier Product form	Substance		
	: EcoRI enzyme		
	: E005		
	: Trade product		
1.2. Relevant identified uses of the substance	•	nst	
		liot	
1.2.1. Relevant identified uses No additional information available			
1.2.2. Uses advised against			
No additional information available	haat		
1.3. Details of the supplier of the safety data s Geno Technology, Inc./ G-Biosciences 9800 Page Avenue 63132-1429 Saint Louis - United States T 800-628-7730 - F 314-991-1504 technical@GBiosciences.com - www.GBiosciences.com			
1.4. Emergency telephone number			
Emergency number : Ch	emtrec 1-800-424-9300 (USA/Canada), +	-1-703-527-3887	7 (Inti)
Not classified Adverse physicochemical, human health and envir To our knowledge, this product does not present any p practice. 2.2. Label elements Labelling according to Regulation (EC) No. 1272/20 No labelling applicable 2.3. Other hazards No additional information available	articular risk, provided it is handled in acc	ordance with go	od occupational hygiene and safety
SECTION 2: Composition/information on	ingradianta		
SECTION 3: Composition/information on 3.1. Substances	ingreatents		
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
EcoRI enzyme		100	Not classified
3.2. Mixtures Not applicable		1	
SECTION 4: First aid measures 4.1. Description of first aid measures			
	Remove person to fresh air and keep co	mfortable for br	eathing.

First-aid measures after skin contact : Wash skin with plenty of water. First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion

: Call a poison center or a doctor if you feel unwell.

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

No additional information available

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

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830				
SECTION 5: Firefighting measures				
5.1. Extinguishing media Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.			
5 5				
5.2. Special hazards arising from the substa Hazardous decomposition products in case of fire	: Toxic fumes may be released.			
5.3. Advice for firefighters				
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.			
SECTION 6: Accidental release measur				
6.1. Personal precautions, protective equip	ment and emergency procedures			
6.1.1. For non-emergency personnel				
Emergency procedures	: Ventilate spillage area.			
6.1.2. For emergency responders				
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".			
6.2. Environmental precautions				
Avoid release to the environment.				
6.3. Methods and material for containment a				
Methods for cleaning up	: Take up liquid spill into absorbent material.			
Other information	: Dispose of materials or solid residues at an authorized site.			
6.4. Reference to other sections				
For further information refer to section 13.				
SECTION 7: Handling and storage				
7.1. Precautions for safe handling				
Precautions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment.			
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.			
7.2. Conditions for safe storage, including any incompatibilities				

 7.2. Conditions for safe storage, including any incompatibilities

 Storage conditions
 : Store in a well-ventila
 : Store in a well-ventilated place. Keep cool.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection
8.1. Control parameters
No additional information available
8.2. Exposure controls
Appropriate engineering controls:
Ensure good ventilation of the work station.
Hand protection:
Protective gloves
Eye protection:
Safety glasses
Skin and body protection:
Wear suitable protective clothing
Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemi	0.1. Information on basic physical and chemical properties	
Physical state	: Liquid	
Colour	: No data available	
Odour	: No data available	

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Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
9.2. Other information	

No additional information available

CECTION 44. Toxic

SECTION 10: Stability and reactivity
10.1. Reactivity
The product is non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability
Stable under normal conditions.
10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.
10.4. Conditions to avoid
None under recommended storage and handling conditions (see section 7).
10.5. Incompatible materials
No additional information available
10.6. Hazardous decomposition products
Hazardous decomposition products.

SECTION 11: Toxicological information	
11.1. Information on toxicological effects	
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

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SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified

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12.2. Persistence and degradability No additional information available	
12.3. Bioaccumulative potential No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessment	
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Waste treatment methods	: Waste treatment methods.
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IATA / ADN	
14.1. UN number UN-No. (ADR)	· Not applicable
UN-No. (IMDG)	: Not applicable : Not applicable
UN-No. (IATA)	: Not applicable
UN-No. (ADN)	: Not applicable
UN-No. (RID)	: Not applicable
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable
Proper Shipping Name (ADN)	: Not applicable
Proper Shipping Name (RID)	: Not applicable
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: Not applicable
IMDG	
Transport hazard class(es) (IMDG)	: Not applicable
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: Not applicable
ADN	
Transport hazard class(es) (ADN)	: Not applicable
RID	· · · · · · · · · · · · · · · · · · ·
Transport hazard class(es) (RID)	: Not applicable
14.4. Packing group	
Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
Packing group (ADN)	: Not applicable
Packing group (RID)	: Not applicable
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 applicable	
Transport by sea	
Not applicable	
Air transport	
Not applicable	

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Inland waterway transport

Not applicable

Rail transport

Not applicable

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

SECTION 15: Regulatory information 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

EcoRI enzyme is not on the REACH Candidate List

EcoRI enzyme is not on the REACH Annex XIV List

EcoRI enzyme is not subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

EcoRI enzyme is not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC

15.1.2. National regulations

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

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

SECTION 16: Other information

Safety Data Sheet applicable for regions

: GB - United Kingdom

SDS EU (REACH Annex II)

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.



Restriction Digestion Buffer [10X] Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Revision date: 5/11/2017 Version: 1.1

SECTION 1: Identification of the subs		inputity/undertuiki	ilig
1.1. Product identifier			
Product form	: Mixture		
Product name	: Restriction Digestion Buffer [10)	(]	
Product code	: R003		
Product group	: Trade product		
I.2. Relevant identified uses of the subst	ance or mixture and uses advise	ed against	
.2.1. Relevant identified uses			
No additional information available			
1.2.2. Uses advised against No additional information available			
1.3. Details of the supplier of the safety d	ata sheet		
Geno Technology, Inc./ G-Biosciences			
9800 Page Avenue 63132-1429 Saint Louis - United States			
Г 800-628-7730 - F 314-991-1504			
echnical@GBiosciences.com - www.GBioscience	es.com		
I.4. Emergency telephone number Emergency number	: Chemtrec 1-800-424-9300 (USA/Ca	nada) +1 703 527 29	
	. Chemilec 1-000-424-9500 (USA/Ca	inaua), + 1-703-327-30	
SECTION 2: Hazards identification			
2.1. Classification of the substance or mi	xture		
Classification according to Regulation (EC) No	o. 1272/2008 [CLP]		
Classification according to Regulation (EC) No	o. 1272/2008 [CLP]		
Classification according to Regulation (EC) No	o. 1272/2008 [CLP]		
Not classified			
Not classified Adverse physicochemical, human health and o	environmental effects		
Not classified Adverse physicochemical, human health and o Fo our knowledge, this product does not present a	environmental effects	d in accordance with	good occupational hygiene and sat
Not classified Adverse physicochemical, human health and o To our knowledge, this product does not present a practice.	environmental effects	d in accordance with t	good occupational hygiene and saf
Not classified Adverse physicochemical, human health and of To our knowledge, this product does not present a practice. 2.2. Label elements	environmental effects any particular risk, provided it is handle	d in accordance with e	good occupational hygiene and sat
Not classified Adverse physicochemical, human health and of To our knowledge, this product does not present a practice. 2.2. Label elements Labelling according to Regulation (EC) No. 12	environmental effects any particular risk, provided it is handle	d in accordance with s	good occupational hygiene and sat
Not classified Adverse physicochemical, human health and of To our knowledge, this product does not present a practice. 2.2. Label elements Labelling according to Regulation (EC) No. 12 No labelling applicable	environmental effects any particular risk, provided it is handle	d in accordance with	good occupational hygiene and sat
Not classified Adverse physicochemical, human health and of To our knowledge, this product does not present a practice. 2.2. Label elements Labelling according to Regulation (EC) No. 12 No labelling applicable 2.3. Other hazards	environmental effects any particular risk, provided it is handle	d in accordance with g	good occupational hygiene and sat
Not classified Adverse physicochemical, human health and o To our knowledge, this product does not present a practice.	environmental effects any particular risk, provided it is handle	d in accordance with a	good occupational hygiene and sat
Adverse physicochemical, human health and of To our knowledge, this product does not present a practice. 2.2. Label elements Labelling according to Regulation (EC) No. 12 No labelling applicable 2.3. Other hazards No additional information available	environmental effects any particular risk, provided it is handle 72/2008 [CLP]	d in accordance with s	good occupational hygiene and sat
Not classified Adverse physicochemical, human health and of To our knowledge, this product does not present a boractice. 2.2. Label elements Labelling according to Regulation (EC) No. 12 No labelling applicable 2.3. Other hazards No additional information available SECTION 3: Composition/information 3.1. Substances	environmental effects any particular risk, provided it is handle 72/2008 [CLP]	d in accordance with	good occupational hygiene and sat
Not classified Adverse physicochemical, human health and of To our knowledge, this product does not present a practice. 2.2. Label elements Labelling according to Regulation (EC) No. 12 No labelling applicable 2.3. Other hazards No additional information available SECTION 3: Composition/information 3.1. Substances Not applicable	environmental effects any particular risk, provided it is handle 72/2008 [CLP]	d in accordance with	good occupational hygiene and saf
Not classified Adverse physicochemical, human health and of To our knowledge, this product does not present a practice. 2.2. Label elements Labelling according to Regulation (EC) No. 12 No labelling applicable 2.3. Other hazards No additional information available SECTION 3: Composition/information 3.1. Substances Not applicable	environmental effects any particular risk, provided it is handle 72/2008 [CLP]	d in accordance with g	good occupational hygiene and sat
Not classified Adverse physicochemical, human health and of To our knowledge, this product does not present a bractice. 2.2. Label elements Labelling according to Regulation (EC) No. 12 No labelling applicable 2.3. Other hazards No additional information available SECTION 3: Composition/information 3.1. Substances Not applicable 3.2. Mixtures	environmental effects any particular risk, provided it is handle 72/2008 [CLP]	d in accordance with s	good occupational hygiene and sat
Not classified Adverse physicochemical, human health and of To our knowledge, this product does not present a boractice. 2.2. Label elements Labelling according to Regulation (EC) No. 12 No labelling applicable 2.3. Other hazards No additional information available SECTION 3: Composition/information 3.1. Substances	environmental effects any particular risk, provided it is handle 72/2008 [CLP]		Classification according t Regulation (EC) No.
Not classified Adverse physicochemical, human health and of To our knowledge, this product does not present a practice. 2.2. Label elements Labelling according to Regulation (EC) No. 12 No labelling applicable 2.3. Other hazards No additional information available SECTION 3: Composition/information 8.1. Substances Not applicable 3.2. Mixtures	environmental effects any particular risk, provided it is handle 72/2008 [CLP]		Classification according t
Not classified Adverse physicochemical, human health and of To our knowledge, this product does not present a practice. 2.2. Label elements Labelling according to Regulation (EC) No. 12 ^a No labelling applicable 2.3. Other hazards No additional information available SECTION 3: Composition/information S.1. Substances Not applicable 3.2. Mixtures Name	environmental effects any particular risk, provided it is handle 72/2008 [CLP]		Classification according t Regulation (EC) No.
Not classified Adverse physicochemical, human health and of To our knowledge, this product does not present a boractice. 2.2. Label elements Labelling according to Regulation (EC) No. 12 No labelling applicable 2.3. Other hazards No additional information available SECTION 3: Composition/information 3.1. Substances Not applicable 3.2. Mixtures Name Deionized water	environmental effects any particular risk, provided it is handle 72/2008 [CLP] h on ingredients Product identifier (CAS-No.) 7732-18-5 (CAS-No.) 127-08-2	%	Classification according t Regulation (EC) No. 1272/2008 [CLP]
Not classified Adverse physicochemical, human health and of To our knowledge, this product does not present a bractice. 2.2. Label elements Labelling according to Regulation (EC) No. 12 No labelling applicable 2.3. Other hazards No additional information available SECTION 3: Composition/information 3.1. Substances Not applicable 3.2. Mixtures Name Deionized water	environmental effects any particular risk, provided it is handle 72/2008 [CLP] h on ingredients Product identifier (CAS-No.) 7732-18-5	<mark>%</mark> >= 80	Classification according t Regulation (EC) No. 1272/2008 [CLP] Not classified
Not classified Adverse physicochemical, human health and of To our knowledge, this product does not present a practice. 2.2. Label elements Labelling according to Regulation (EC) No. 12 No labelling applicable 2.3. Other hazards No additional information available SECTION 3: Composition/information 8.1. Substances Not applicable 3.2. Mixtures	environmental effects any particular risk, provided it is handle 72/2008 [CLP] n on ingredients Product identifier (CAS-No.) 7732-18-5 (CAS-No.) 127-08-2 (EC-No.) 204-822-2 (CAS-No.) 6850-28-8	<mark>%</mark> >= 80	Classification according t Regulation (EC) No. 1272/2008 [CLP] Not classified
Not classified Adverse physicochemical, human health and of To our knowledge, this product does not present a boractice. 2.2. Label elements Labelling according to Regulation (EC) No. 12 No labelling applicable 2.3. Other hazards No additional information available SECTION 3: Composition/information 3.1. Substances Not applicable 3.2. Mixtures Name Deionized water potassium acetate tris(hydroxymethyl)aminomethane acetate	environmental effects any particular risk, provided it is handle 72/2008 [CLP] n on ingredients Product identifier (CAS-No.) 7732-18-5 (CAS-No.) 127-08-2 (EC-No.) 204-822-2 (CAS-No.) 6850-28-8 (EC-No.) 229-939-6	<pre>% >= 80 0.05 - 0.5 0.05 - 0.5</pre>	Classification according t Regulation (EC) No. 1272/2008 [CLP] Not classified Not classified Not classified
Not classified Adverse physicochemical, human health and of To our knowledge, this product does not present a bractice. 2.2. Label elements Labelling according to Regulation (EC) No. 12 No labelling applicable 2.3. Other hazards No additional information available SECTION 3: Composition/information SECTION 3: Composition/information S.1. Substances Not applicable 3.2. Mixtures Name Deionized water potassium acetate	environmental effects any particular risk, provided it is handle 72/2008 [CLP] n on ingredients Product identifier (CAS-No.) 7732-18-5 (CAS-No.) 127-08-2 (EC-No.) 204-822-2 (CAS-No.) 6850-28-8	% >= 80 0.05 - 0.5	Classification according t Regulation (EC) No. 1272/2008 [CLP] Not classified Not classified

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.

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First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.	
4.2. Most important symptoms and ef No additional information available	fects, both acute and delayed	
4.3. Indication of any immediate medi Treat symptomatically.	cal attention and special treatment needed	
SECTION 5: Firefighting measures	S	

5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Special hazards arising from the substa	ince or mixture
Hazardous decomposition products in case of fire	: Toxic fumes may be released.
5.3. Advice for firefighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equipm		
6.1.1. For non-emergency personnel		
Emergency procedures	: Ventilate spillage area.	
6.1.2. For emergency responders	. Do not attempt to take action without avitable protective againment. For further information	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".	
6.2. Environmental precautions		
Avoid release to the environment.		
6.3. Methods and material for containment an Methods for cleaning up	: Take up liquid spill into absorbent material.	
Other information	: Dispose of materials or solid residues at an authorized site.	
6.4. Reference to other sections		
For further information refer to section 13.		
SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment.	
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.	
7.2. Conditions for safe storage, including an		
Storage conditions	: Store in a well-ventilated place. Keep cool.	
Storage temperature	: -20 °C	
7.3. Specific end use(s)		
No additional information available		
SECTION 8: Exposure controls/personal	protection	
8.1. Control parameters		
No additional information available		
8.2. Exposure controls		
Appropriate engineering controls:		
Ensure good ventilation of the work station.		
Hand protection:		
Protective gloves		
Eye protection:		
Safety glasses		
Skin and body protection:		
Wear suitable protective clothing		
Respiratory protection:		
In case of insufficient ventilation, wear suitable respir	atory equipment	
Environmental exposure controls:		
Avoid release to the environment.		

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SECTION 9: Physical and chemical pr	operties
9.1. Information on basic physical and che	
Physical state	: Liquid
Colour	: No data available
Odour	: No data available
Odour threshold	: No data available
рН	: 7.9
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
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

 The product is non-reactive under normal conditions of use, storage and transport.

 10.2. Chemical stability

 Stable under normal conditions.

 10.3. Possibility of hazardous reactions

 No dangerous reactions known under normal conditions of use.

 10.4. Conditions to avoid

 None under recommended storage and handling conditions (see section 7).

 10.5. Incompatible materials

 No additional information available

 10.6. Hazardous decomposition products.

SECTION 11: Toxicological information	
11.1. Information on toxicological effects	
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
potassium acetate (127-08-2)	
LD50 oral rat	3530 mg/kg bodyweight (Rat, Oral)
Skin corrosion/irritation	: Not classified
	pH: 7.9
Serious eye damage/irritation	: Not classified
	pH: 7.9
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified

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STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified
potassium acetate (127-08-2)	
LC50 fish 1	6800 mg/l (96 h, Salmo gairdneri, Semi-static system)
12.2. Persistence and degradability	
tris(hydroxymethyl)aminomethane acetate	(6850-28-8)
Persistence and degradability	Readily biodegradable in water.
potassium acetate (127-08-2)	
Persistence and degradability	Readily biodegradable in water.
Bovine Serum Albumin (9048-46-8)	
Persistence and degradability	Readily biodegradable in water.
magnesium acetate,tetrahydrate (16674-78	5)
Persistence and degradability 12.3. Bioaccumulative potential	Biodegradability in water: no data available.
tris(hydroxymethyl)aminomethane acetate	(6850-28-8)
Log Pow	-1.56 (Calculated, KOWWIN)
Bioaccumulative potential	Not bioaccumulative.
	Not bloaccumulative.
potassium acetate (127-08-2)	
Log Pow	-3.72 (Estimated value)
Bioaccumulative potential	Not bioaccumulative.
magnesium acetate,tetrahydrate (16674-78	
Bioaccumulative potential	No bioaccumulation data available.
12.4. Mobility in soil	
tris(hydroxymethyl)aminomethane acetate	
Log Koc	-0.848 - 1 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Highly mobile in soil.
potassium acetate (127-08-2)	
Ecology - soil	No (test)data on mobility of the substance available.
12.5. Results of PBT and vPvB assessment	
No additional information available	
12.6. Other adverse effects No additional information available	

SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Waste treatment methods	: Waste treatment methods.

SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / ADN

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

14.1. UN number UN-No. (MDG) : Not applicable UN-No. (MDG) : Not applicable UN-No. (ADN) : Not applicable UN-No. (RD) : Not applicable Proper Shipping Name (ADN) : Not applicable HA7 Interguilated Proper Shipping Name (ADN) : Not applicable HOS Intargont hazard class(es) (ADR) : Not applicable HOS Intargont hazard class(es) (MDG) : Not applicable HA8 T Intargont hazard class(es) (MDG) : Not applicable HA9 KD Intargont hazard class(es) (MDN) : Not applicable HA9 KD Intargont hazard class(es) (MDN) : Not applicable HA9 KD Intargont hazard class(es) (MDN) : Not applicable Packi		
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14.7. Transport in bulk according to Annex II of Marpol and the IBC Code		
	14.7. Transport in bulk according to Annex	II of Marpol and the IBC Code

SECTION 15: Regulatory information

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

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

Contains no substance subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Substance(s) are not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

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15.1.2. National regulations

No additional information available

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

SECTION 16: Other information

Safety Data Sheet applicable for regions

: GB - United Kingdom

SDS EU (REACH Annex II)

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.



EcoRI enzyme

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Revision date: 5/11/2017

SECTION 1: Identification of the substanc	e/mixture and of the company	/undertaking	
1.1. Product identifier Product form	Substance		
	EcoRI enzyme		
	E005		
	Trade product		
1.2. Relevant identified uses of the substance	,	net	
	or mixture and uses davised agai	iist	
1.2.1. Relevant identified uses No additional information available			
1.2.2. Uses advised against			
No additional information available			
1.3. Details of the supplier of the safety data sl Geno Technology, Inc./ G-Biosciences 9800 Page Avenue 63132-1429 Saint Louis - United States T 800-628-7730 - F 314-991-1504 technical@GBiosciences.com - www.GBiosciences.com			
1.4. Emergency telephone number			
Emergency number : Che	emtrec 1-800-424-9300 (USA/Canada), 1	-1-703-527-3887	7 (Intl)
Classification according to Regulation (EC) No. 1272 Not classified Adverse physicochemical, human health and enviro To our knowledge, this product does not present any pa practice. 2.2. Label elements Labelling according to Regulation (EC) No. 1272/200 No labelling applicable 2.3. Other hazards No additional information available	nmental effects rticular risk, provided it is handled in acc	ordance with go	od occupational hygiene and safety
SECTION 3: Composition/information on i	ingradiants		
3.1. Substances			
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
EcoRI enzyme		100	Not classified
3.2. Mixtures	I	<u> </u>	
Not applicable			
SECTION 4: First aid measures 4.1. Description of first aid measures First-aid measures after inhalation	Remove person to fresh air and keep co	mfortable for bre	eathing.

First-aid measures after skin contact : Wash skin with plenty of water. First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion

: Call a poison center or a doctor if you feel unwell.

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

No additional information available

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

EcoRI enzyme Safety Data Sheet

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830	
SECTION 5: Firefighting measures	
5.1. Extinguishing media Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5 5	
5.2. Special hazards arising from the substa Hazardous decomposition products in case of fire	: Toxic fumes may be released.
	. Toxic lumes may be released.
5.3. Advice for firefighters Protection during firefighting	. De net ettemet te teles estien without suitable metertine environment. Calif contained
Protection during intelighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release measur	es
6.1. Personal precautions, protective equip	ment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for containment a	
Methods for cleaning up	: Take up liquid spill into absorbent material.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
For further information refer to section 13.	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2 Conditions for asfa starses including a	

 7.2. Conditions for safe storage, including any incompatibilities

 Storage conditions
 : Store in a well-ventilated place. Keep cool.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection
8.1. Control parameters
No additional information available
8.2. Exposure controls
Appropriate engineering controls:
Ensure good ventilation of the work station.
Hand protection:
Protective gloves
Eye protection:
Safety glasses
Skin and body protection:
Wear suitable protective clothing
Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties		
Physical state	: Liquid	
Colour	: No data available	
Odour	: No data available	

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Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
9.2. Other information	

No additional information available

CECTION 44. Toxic

SECTION 10: Stability and reactivity
10.1. Reactivity
The product is non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability
Stable under normal conditions.
10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.
10.4. Conditions to avoid
None under recommended storage and handling conditions (see section 7).
10.5. Incompatible materials
No additional information available
10.6. Hazardous decomposition products
Hazardous decomposition products.

SECTION 11: Toxicological information	
11.1. Information on toxicological effects	
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

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SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified

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12.2. Persistence and degradability No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil No additional information available	
12.5. Results of PBT and vPvB assessment	
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods Waste treatment methods	: Waste treatment methods.
Waste treatment methods	. Waste treatment methods.
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IATA / ADN	
14.1. UN number	
UN-No. (ADR)	: Not applicable
UN-No. (IMDG)	: Not applicable
UN-No. (IATA)	: Not applicable
UN-No. (ADN)	: Not applicable
UN-No. (RID)	: Not applicable
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable
Proper Shipping Name (ADN)	: Not applicable
Proper Shipping Name (RID)	: Not applicable
14.3. Transport hazard class(es)	
	. Natawali a kia
Transport hazard class(es) (ADR)	: Not applicable
IMDG	
Transport hazard class(es) (IMDG)	: Not applicable
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Transport hazard class(es) (IATA)	: Not applicable
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Transport hazard class(es) (ADN)	: Not applicable
RID	
Transport hazard class(es) (RID)	: Not applicable
14.4. Packing group	
Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
Packing group (ADN)	: Not applicable
Packing group (RID)	: Not applicable
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 applicable	
Transport by sea	
Not applicable	
Air transport	
Not applicable	

EcoRI enzyme

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

Inland waterway transport

Not applicable

Rail transport

Not applicable

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

SECTION 15: Regulatory information 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

EcoRI enzyme is not on the REACH Candidate List

EcoRI enzyme is not on the REACH Annex XIV List

EcoRI enzyme is not subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

EcoRI enzyme is not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC

15.1.2. National regulations

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

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

SECTION 16: Other information

Safety Data Sheet applicable for regions

: GB - United Kingdom

SDS EU (REACH Annex II)

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.



Restriction Digestion Buffer [10X] Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Revision date: 5/11/2017 Version: 1.1

SECTION 1: Identification of the subs		inputity/undertuiki	ilig
1.1. Product identifier			
Product form	: Mixture		
Product name	: Restriction Digestion Buffer [10)	(]	
Product code	: R003		
Product group	: Trade product		
I.2. Relevant identified uses of the subst	ance or mixture and uses advise	ed against	
.2.1. Relevant identified uses			
No additional information available			
1.2.2. Uses advised against No additional information available			
1.3. Details of the supplier of the safety d	ata sheet		
Geno Technology, Inc./ G-Biosciences			
9800 Page Avenue 63132-1429 Saint Louis - United States			
Г 800-628-7730 - F 314-991-1504			
echnical@GBiosciences.com - www.GBioscience	es.com		
I.4. Emergency telephone number Emergency number	: Chemtrec 1-800-424-9300 (USA/Ca	nada) +1 703 527 29	
	. Chemilec 1-000-424-9500 (USA/Ca	inaua), + 1-703-327-30	
SECTION 2: Hazards identification			
2.1. Classification of the substance or mi	xture		
Classification according to Regulation (EC) No	o. 1272/2008 [CLP]		
Classification according to Regulation (EC) No	o. 1272/2008 [CLP]		
Classification according to Regulation (EC) No	o. 1272/2008 [CLP]		
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Not classified Adverse physicochemical, human health and o	environmental effects		
Not classified Adverse physicochemical, human health and o Fo our knowledge, this product does not present a	environmental effects	d in accordance with	good occupational hygiene and sat
Not classified Adverse physicochemical, human health and o To our knowledge, this product does not present a practice.	environmental effects	d in accordance with t	good occupational hygiene and saf
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SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.

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First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.	
4.2. Most important symptoms and ef No additional information available	fects, both acute and delayed	
4.3. Indication of any immediate medi Treat symptomatically.	cal attention and special treatment needed	
SECTION 5: Firefighting measures	S	

5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Special hazards arising from the substa	nce or mixture
Hazardous decomposition products in case of fire	: Toxic fumes may be released.
5.3. Advice for firefighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures	S
6.1. Personal precautions, protective equipm	
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area.
C4.2. For encourse and an	
6.1.2. For emergency responders Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information
	refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for containment an Methods for cleaning up	: Take up liquid spill into absorbent material.
	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	. Dispose of materials of solid residues at an autionzed site.
For further information refer to section 13.	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, including an	
Storage conditions	: Store in a well-ventilated place. Keep cool.
Storage temperature	: -20 °C
7.3. Specific end use(s) No additional information available	
No additional information available	
SECTION 8: Exposure controls/personal	protection
8.1. Control parameters	
No additional information available	
8.2. Exposure controls	
Appropriate engineering controls:	
Ensure good ventilation of the work station.	
Hand protection:	
Protective gloves	
Eye protection:	
Safety glasses	
Skin and body protection:	
Wear suitable protective clothing	
Respiratory protection:	
In case of insufficient ventilation, wear suitable respira	atory equipment
Environmental exposure controls:	
Avoid release to the environment.	

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SECTION 9: Physical and chemical pr	operties
9.1. Information on basic physical and che	
Physical state	: Liquid
Colour	: No data available
Odour	: No data available
Odour threshold	: No data available
рН	: 7.9
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
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

 The product is non-reactive under normal conditions of use, storage and transport.

 10.2. Chemical stability

 Stable under normal conditions.

 10.3. Possibility of hazardous reactions

 No dangerous reactions known under normal conditions of use.

 10.4. Conditions to avoid

 None under recommended storage and handling conditions (see section 7).

 10.5. Incompatible materials

 No additional information available

 10.6. Hazardous decomposition products.

SECTION 11: Toxicological information	
11.1. Information on toxicological effects	
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
potassium acetate (127-08-2)	
LD50 oral rat	3530 mg/kg bodyweight (Rat, Oral)
Skin corrosion/irritation	: Not classified
	pH: 7.9
Serious eye damage/irritation	: Not classified
	pH: 7.9
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified

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STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified
potassium acetate (127-08-2)	
LC50 fish 1	6800 mg/l (96 h, Salmo gairdneri, Semi-static system)
12.2. Persistence and degradability	
tris(hydroxymethyl)aminomethane acetate	(6850-28-8)
Persistence and degradability	Readily biodegradable in water.
potassium acetate (127-08-2)	
Persistence and degradability	Readily biodegradable in water.
Bovine Serum Albumin (9048-46-8)	
Persistence and degradability	Readily biodegradable in water.
magnesium acetate,tetrahydrate (16674-78	5)
Persistence and degradability 12.3. Bioaccumulative potential	Biodegradability in water: no data available.
tris(hydroxymethyl)aminomethane acetate	(6850-28-8)
Log Pow	-1.56 (Calculated, KOWWIN)
Bioaccumulative potential	Not bioaccumulative.
	Not bloaccumulative.
potassium acetate (127-08-2)	
Log Pow	-3.72 (Estimated value)
Bioaccumulative potential	Not bioaccumulative.
magnesium acetate,tetrahydrate (16674-78	
Bioaccumulative potential	No bioaccumulation data available.
12.4. Mobility in soil	
tris(hydroxymethyl)aminomethane acetate	
Log Koc	-0.848 - 1 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Highly mobile in soil.
potassium acetate (127-08-2)	
Ecology - soil	No (test)data on mobility of the substance available.
12.5. Results of PBT and vPvB assessment	
No additional information available	
12.6. Other adverse effects No additional information available	

SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Waste treatment methods	: Waste treatment methods.

SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / ADN

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14.1. UN number UN-No. (MDG) : Not applicable UN-No. (MDG) : Not applicable UN-No. (ADN) : Not applicable UN-No. (RD) : Not applicable Proper Shipping Name (ADN) : Not applicable HA7 Interguilated Proper Shipping Name (ADN) : Not applicable HOS Intargont hazard class(es) (ADR) : Not applicable HOS Intargont hazard class(es) (MDG) : Not applicable HA8 T Intargont hazard class(es) (MDG) : Not applicable HA9 KD Intargont hazard class(es) (MDN) : Not applicable HA9 KD Intargont hazard class(es) (MDN) : Not applicable HA9 KD Intargont hazard class(es) (MDN) : Not applicable Packi		
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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

Contains no substance subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Substance(s) are not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

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

15.1.2. National regulations

No additional information available

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

SECTION 16: Other information

Safety Data Sheet applicable for regions

: GB - United Kingdom

SDS EU (REACH Annex II)

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.