

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-0084

Glycerol DNA Loading Dye Buffer 10X, 5 ml

Size: 5 mL





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

 Mixture and of the cor Mixture Glycerol DNA Loading Dye Buff G044 Blend or mixture and uses advise sheet 	fer 10X, 5 mL ed against		
: Glycerol DNA Loading Dye Buff : G044 : Blend e or mixture and uses advise sheet	ed against	3887 (Inti)	
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	anada), +1-703-527- :	3887 (Intl)	
hemtrec 1-800-424-9300 (USA/Ca	anada), +1-703-527- 3	3887 (Intl)	
·e	SECTION 2: Hazards identification 2.1. Classification of the substance or mixture		
Classification according to Regulation (EC) No. 1272/2008 [CLP]			
	ed in accordance with	h good occupational hygiene an	d safe
008 [CLP]			
oo8 [CLP] n ingredients			
	%	Classification accordi Regulation (EC) No. 1272/2008 [CLP]	ng to
ingredients	% >= 80	Regulation (EC) No.	ng to
Product identifier		Regulation (EC) No. 1272/2008 [CLP]	ng to
008 [CLP]			
ingredients	%		ng to
ingredients	%	Regulation (EC) No.	ng to
Product identifier		Regulation (EC) No. 1272/2008 [CLP]	ng to
Product identifier (CAS-No.) 7732-18-5	>= 80	Regulation (EC) No. 1272/2008 [CLP] Not classified	ng to
Product identifier (CAS-No.) 7732-18-5 (CAS-No.) 56-81-5	>= 80	Regulation (EC) No. 1272/2008 [CLP] Not classified	ng to
r	conmental effects particular risk, provided it is handle	conmental effects particular risk, provided it is handled in accordance with	conmental effects particular risk, provided it is handled in accordance with good occupational hygiene and

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

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

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	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Special hazards arising from the substa Hazardous decomposition products in case of fire	i nce or mixture : 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 equipment and emergency procedures		
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 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 and		
	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	
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 p	protection	
8.1. Control parameters		
glycerol (56-81-5)		
United Kingdom - Occupational Exposure Limits		
WEL TWA (mg/m ³)	10 mg/m³	
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.

Glycerol DNA Loading Dye Buffer 10X, 5 mL Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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

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
glycerol (56-81-5)	
LD50 oral rat	27200 mg/kg (OECD 401: Acute Oral Toxicity, Rat, Female, Experimental value, Oral)
LD50 dermal	56750 mg/kg (4 day(s), Guinea pig, Male / female, Experimental value, Dermal, 14 day(s))
LC50 inhalation rat (mg/l)	> 2.75 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male, Converted value, Inhalation (vapours))
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

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

STOT-single exposure	: Not classified
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
glycerol (56-81-5)	
LC50 fish 1	54000 mg/l (96 h, Salmo gairdneri, Static system, Fresh water, Experimental value, Lethal)
EC50 Daphnia 1	> 10000 mg/l (24 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
12.2. Persistence and degradability	
glycerol (56-81-5)	
Persistence and degradability	Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0.87 g O ₂ /g substance
Chemical oxygen demand (COD)	1.16 g O ₂ /g substance
ThOD	1.217 g O ₂ /g substance
BOD (% of ThOD)	0.71

Bromophenol blue (115-39-9)		
Persistence and degradability	Biodegradable in the soil. Not readily biodegradable in water.	
12.3. Bioaccumulative potential		
glycerol (56-81-5)		
Log Pow	-1.75 (Experimental value, Equivalent or similar to OECD 107, 25 °C)	
Bioaccumulative potential	Not bioaccumulative.	

Bromophenol blue (115-39-9)	
BCF fish 1	14000 (Pisces, Literature study, Calculated value)
Log Pow	6.77 (Estimated value, KOWWIN)
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).
12.4. Mobility in soil	
glycerol (56-81-5)	
Surface tension	0.0634 N/m (20 °C, 1000 g/l)
Ecology - soil	No (test)data on mobility of the substance available.

Bromophenol blue (115-39-9)	
Log Koc	5.165 - 6.185 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Adsorbs into the soil.
12.5. Results of PBT and vPvB assessment	
Component	
glycerol (56-81-5)	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	

vegral DNA Loading Dyg Buffor 10X 5 ml

SECTION 13: Disposal considera	ations
13.1. Waste treatment methods	
Waste treatment methods	: Waste treatment methods.
SECTION 14: Transport informat	tion
In accordance with ADR / RID / IMDG / IAT.	A / 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)	
ADR	Natansliashla
Transport hazard class(es) (ADR) IMDG	: Not applicable
Transport hazard class(es) (IMDG)	: Not applicable
	. Not applicable
Transport hazard class(es) (IATA)	: Not applicable
	. Not applicable
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

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

Contains no REACH substances with Annex XVII restrictions

Safety Data Sheet

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

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.

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.



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

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e or mixture and uses advise sheet		3887 (Inti)	
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hemtrec 1-800-424-9300 (USA/Ca	anada), +1-703-527- 3	3887 (Intl)	
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	ed in accordance with	h good occupational hygiene an	d safe
008 [CLP]			
oo8 [CLP] n ingredients			
	%	Classification accordi Regulation (EC) No. 1272/2008 [CLP]	ng to
ingredients	% >= 80	Regulation (EC) No.	ng to
Product identifier		Regulation (EC) No. 1272/2008 [CLP]	ng to
008 [CLP]			
ingredients	%		ng to
ingredients	%	Regulation (EC) No.	ng to
Product identifier		Regulation (EC) No. 1272/2008 [CLP]	ng to
Product identifier (CAS-No.) 7732-18-5	>= 80	Regulation (EC) No. 1272/2008 [CLP] Not classified	ng to
Product identifier (CAS-No.) 7732-18-5 (CAS-No.) 56-81-5	>= 80	Regulation (EC) No. 1272/2008 [CLP] Not classified	ng to
r		conmental effects particular risk, provided it is handled in accordance with	conmental effects particular risk, provided it is handled in accordance with good occupational hygiene and

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

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

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	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Special hazards arising from the substa Hazardous decomposition products in case of fire	i nce or mixture : 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 equipme	nt and emergency procedures
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 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 and	
	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
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 p	protection
8.1. Control parameters	
glycerol (56-81-5)	
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m ³)	10 mg/m³
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.

Glycerol DNA Loading Dye Buffer 10X, 5 mL Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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

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
glycerol (56-81-5)	
LD50 oral rat	27200 mg/kg (OECD 401: Acute Oral Toxicity, Rat, Female, Experimental value, Oral)
LD50 dermal	56750 mg/kg (4 day(s), Guinea pig, Male / female, Experimental value, Dermal, 14 day(s))
LC50 inhalation rat (mg/l)	> 2.75 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male, Converted value, Inhalation (vapours))
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

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

STOT-single exposure	: Not classified
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
glycerol (56-81-5)	
LC50 fish 1	54000 mg/l (96 h, Salmo gairdneri, Static system, Fresh water, Experimental value, Lethal)
EC50 Daphnia 1	> 10000 mg/l (24 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
12.2. Persistence and degradability	
glycerol (56-81-5)	
Persistence and degradability	Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0.87 g O ₂ /g substance
Chemical oxygen demand (COD)	1.16 g O ₂ /g substance
ThOD	1.217 g O ₂ /g substance
BOD (% of ThOD)	0.71

Bromophenol blue (115-39-9)		
Persistence and degradability	Biodegradable in the soil. Not readily biodegradable in water.	
12.3. Bioaccumulative potential		
glycerol (56-81-5)		
Log Pow	-1.75 (Experimental value, Equivalent or similar to OECD 107, 25 °C)	
Bioaccumulative potential	Not bioaccumulative.	

Bromophenol blue (115-39-9)	
BCF fish 1	14000 (Pisces, Literature study, Calculated value)
Log Pow	6.77 (Estimated value, KOWWIN)
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).
12.4. Mobility in soil	
glycerol (56-81-5)	
Surface tension	0.0634 N/m (20 °C, 1000 g/l)
Ecology - soil	No (test)data on mobility of the substance available.

Bromophenol blue (115-39-9)	
Log Koc	5.165 - 6.185 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Adsorbs into the soil.
12.5. Results of PBT and vPvB assessment	
Component	
glycerol (56-81-5)	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	

vegral DNA Loading Dyg Buffor 10X 5 ml

SECTION 13: Disposal considera	tions
13.1. Waste treatment methods	
Waste treatment methods	: Waste treatment methods.
SECTION 14: Transport informat	ion
In accordance with ADR / RID / IMDG / IAT	
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)	
ADR	
Transport hazard class(es) (ADR)	: Not applicable
IMDG	
Transport hazard class(es) (IMDG)	: Not applicable
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

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

Contains no REACH substances with Annex XVII restrictions

Safety Data Sheet

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

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.

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.