

IENCES 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. # 786-357

GET[™] CLEAN DNA

Size: 100 Preps





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 substance/mixture and of the company/undertaking 1.1. Product identifier Product name : I'E Buffer Product orde : 036T_7041 Product orde : 036T_7041 Product orde : 036T_7041 Product orop : Trade product 1.2. Relevant identified uses of the substance or mixture and uses advised against 1.2.1. Relevant identified uses Main use category : Research purposes 1.2. Uses advised against No additional information available 1.3. Details of the supplier of the safety data sheet Geno Technology, Inc /-Biosciences 6800 Page Avenue 68122-1422 Saint Louis - United States T 800-628-7730 - F 314-991-1504 technical@GBiosciences.com 1.4. Emergenery telephone number Emergency number : Chemtre 1-800-424-9300 (USA/Canada), +1-703-527-3887 (Inti) SECTION 2: Hazards identification 2.1. Classification of the substance or mixture Classified Adverse physicochemical, human health and environmental effects To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygic practice.	
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3.1. Substances	
Not applicable	
not applicable	
3.2. Mixtures	
Name Product identifier % Classification ac	
Regulation (EC)	cording to
1272/2008 [CLP]	
tris(hydroxymethyl)aminomethane (CAS-No.) 77-86-1 0.5 - 2 Not classified (EC-No.) 201-064-4	
disodium dihydrogen ethylenediaminetetraacetate, (CAS-No.) 6381-92-6 0.05 - 0.5 Not classified	
dihydrate (EC-No.) 205-358-3	
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.	
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		

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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	ance 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 measure	s
6.1. Personal precautions, protective equipm	
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
Tigliene measures	product.
7.2. Conditions for safe storage, including an	
Storage conditions	: Store in a well-ventilated place. Keep cool.
7.3. Specific end use(s) No additional information available	
SECTION 8: Exposure controls/persona	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.

SECTION 9: Physical and c	hemical properties	
9.1. Information on basic phys	ical and chemical properties	
Physical state	: Liquid	

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Colour	: Clear.
Odour	: None.
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
tris(hydroxymethyl)aminomethane (77-86-1)	
LD50 oral rat	> 5000 mg/kg bodyweight (OECD 425: Acute Oral Toxicity: Up-and-Down Procedure, Rat, Female, Experimental value, Oral, 14 day(s))
LD50 dermal rat	> 5000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal)

disodium dihydrogen ethylenediaminetetraacetate, dihydrate (6381-92-6)	
LD50 oral rat	> 2000 mg/kg (Rat)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit)
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

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Reproductive toxicity	: Not classified
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
tris(hydroxymethyl)aminomethane (77-86-1)	
EC50 Daphnia 1	> 980 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
EC50 72h algae (1)	397 mg/l (Equivalent or similar to OECD 201, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Growth rate)

disodium dihydrogen ethylenediaminetetraacetate, dihydrate (6381-92-6)	
LC50 fish 1	320 mg/l (LC50; 96 h)
EC50 Daphnia 1	> 100 mg/l (EC50; 24 h)
12.2. Persistence and degradability	
tris(hydroxymethyl)aminomethane (77-86-1)	
Persistence and degradability	Readily biodegradable in water.

disodium dihydrogen ethylenediaminetetraac	etate, dihydrate (6381-92-6)
Persistence and degradability	Not readily biodegradable in water.
Biochemical oxygen demand (BOD)	0.01 g O ₂ /g substance
12.3. Bioaccumulative potential	
tris(hydroxymethyl)aminomethane (77-86-1)	
Log Pow	-2.31 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 $^\circ\text{C}$)
Bioaccumulative potential	Not bioaccumulative.

disodium dihydrogen ethylenediaminetetraa	cetate, dihydrate (6381-92-6)	
Bioaccumulative potential	ative potential No bioaccumulation data available.	
12.4. Mobility in soil		
tris(hydroxymethyl)aminomethane (77-86-1)		
Log Koc	1.87 (log Koc, QSAR)	
Ecology - soil	Highly mobile in soil.	
12.5. Results of PBT and vPvB assessment		
Component		
tris(hydroxymethyl)aminomethane (77-86-1)	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 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	is amenument regulation (EO) 2010/030
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	Net wellsche
Proper Shipping Name (ADR)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA) Proper Shipping Name (ADN)	: Not applicable
Proper Shipping Name (RID)	: Not applicable : Not applicable
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: Not applicable
IMDG	
Transport hazard class(es) (IMDG)	: Not applicable
IATA	
Transport hazard class(es) (IATA)	: Not applicable
ADN	. Not emplicable
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	
No data available	
Transport by sea	
No data available	
Air transport	
No data available	
Inland waterway transport	
No data available	
Rail transport	
No data available	
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

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.



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: Id	entification of the substa	ance/mixture and of the	company/undertaking	
1.1. Product ide				
Product form		: Mixture		
Product name		: Binding Buffer		
Product code		: 059B		
Product group		: Blend		
1.2. Relevant ide	entified uses of the substan	ce or mixture and uses a	dvised against	
1.2.1. Relevant ide No additional inform				
1.2.2. Uses advise No additional inform	nation available			
Geno Technology, 9800 Page Avenue 63132-1429 Saint L T 800-628-7730 - F	ouis - United States			
1.4. Emergency Emergency number	telephone number	Chemtrec 1-800-424-9300 (US	SA/Canada), +1-703-527-3887	(Inti)
Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA Belfast	0344 892 0111	
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111	
United Kingdom	National Poisons Information Service (Cardiff Centre) Gwenwyn Ward, Llandough Hospital	Penarth CF64 2XX Cardiff	0344 892 0111	
United Kingdom	National Poisons Information Service Edinburgh Royal Infirmary of Edinburgh	Little France Crescent EH16 4SA Edinburgh	0344 892 0111	
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188	
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre, Wolfson Unit	Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle	0344 892 0111	

SECTION 2: Hazards identification 2.1. Classification of the substance or mixture

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

Acute toxicity (oral), Category 4	H302
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Full text of H statements : see section 16	

Adverse physicochemical, human health and environmental effects

Harmful if swallowed. Causes skin irritation. Causes serious eye irritation.

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

2.2. Label elements

Labelling	according	to Rec	ulation ((FC)	No	1272/2008	
Labelling	according		Julation		110.		

Labelling according to Regulation (EC) No. 1272/2 Hazard pictograms (CLP)	GHS07
CLP Signal word	: Warning
Hazard statements (CLP)	: H302 - Harmful if swallowed. H315 - Causes skin irritation. H319 - Causes serious eye irritation.
Precautionary statements (CLP)	 P264 - Wash hands, forearms and face thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P301+P312 - IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell. P302+P352 - IF ON SKIN: Wash with plenty of water. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P321 - Specific treatment (see supplemental first aid instruction on this label). P330 - Rinse mouth. P332+P313 - If skin irritation occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
2.3. Other hazards	

No additional information available

SECTION 3: Composition/informa 3.1. Substances Not applicable 3.2. Mixtures	ation on ingredients		
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Guanidine hydrochloride	(CAS-No.) 50-01-1 (EC-No.) 200-002-3 (EC Index-No.) 607-148-00-0	50 - 80	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319
Deionized water	(CAS-No.) 7732-18-5	> 40	Not classified

Full text of H-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Call a poison center or a doctor if you feel unwell.
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. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Call a poison center or a doctor if you feel unwell.
4.2. Most important symptoms and effects,	both acute and delayed
Symptoms/effects after skin contact	: Irritation.
Symptoms/effects after eye contact	: Eye irritation.
4.3. Indication of any immediate medical att Treat symptomatically.	rention and special treatment needed

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 subst	ance or mixture
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

according to Regulation (EC) No. 1907/2006 (REAC	CH) with its amendment Regulation (EU) 2015/830
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 m	
6.1. Personal precautions, protective	equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes.
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 contain	
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. Avoid contact with skin and eyes. Wear personal protective equipment.
Hygiene measures	: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, inclu	
Storage conditions	: Store in a well-ventilated place. Keep cool.
7.3. Specific end use(s) No additional information available	
	ersonal protection
8.1. Control parameters	ersonal protection
8.1. Control parameters No additional information available	ersonal protection
8.1. Control parameters No additional information available 8.2. Exposure controls	ersonal protection
8.1. Control parameters No additional information available 8.2. Exposure controls Appropriate engineering controls:	ersonal protection
SECTION 8: Exposure controls/pe 8.1. Control parameters No additional information available 8.2. Exposure controls Appropriate engineering controls: Ensure good ventilation of the work station. Hand protection:	ersonal protection

Skin and body protection:

Safety glasses

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	
Odour threshold	: No data available	
рН	: No data available	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: Not applicable	

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

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
0.2 Other information	

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	on
11.1. Information on toxicological effects	
Acute toxicity (oral)	: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Binding Buffer	
ATE CLP (oral)	791.667 mg/kg bodyweight
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
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

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

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

12.2. Persistence and degradability	
Guanidine hydrochloride (50-01-1)	
Persistence and degradability	Not readily biodegradable in water.
12.3. Bioaccumulative potential	
Guanidine hydrochloride (50-01-1)	
Log Pow	-1.7
Bioaccumulative potential	Not bioaccumulative.
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	

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 regulated
UN-No. (IATA)	: Not regulated
UN-No. (ADN)	: Not applicable
UN-No. (RID)	: Not applicable
14.2. UN proper shipping name	Mada and Baadda
Proper Shipping Name (ADR)	: Not applicable
Proper Shipping Name (IMDG)	: Not regulated
Proper Shipping Name (IATA)	: Not regulated
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 regulated
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: Not regulated
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 regulated
Packing group (IATA)	: Not regulated
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	
No data available	

Safety Data Sheet

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

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

No data available Rail transport

No data available

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

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

Full text of H- and EUH-statements:		
Acute Tox. 4 (Oral)	te Tox. 4 (Oral) Acute toxicity (oral), Category 4	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
H302	Harmful if swallowed.	
H315	Causes skin irritation.	
H319	Causes serious eye irritation.	

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

.1. Product identifier	• • •		
Product form	: Mixture		
Product name	: DNA Wash		
Product code	: 196D		
Product group	: Trade product		
.2. Relevant identified uses of the substa	ance or mixture and uses advis	ed against	
.2.1. Relevant identified uses			
lo additional information available			
.2.2. Uses advised against			
lo additional information available			
.3. Details of the supplier of the safety da	ata sheet		
Geno Technology, Inc./ G-Biosciences			
800 Page Avenue 3132-1429 Saint Louis - United States			
⁻ 800-628-7730 - F 314-991-1504			
echnical@GBiosciences.com - www.GBioscience	es.com		
.4. Emergency telephone number			
mergency number	: Chemtrec 1-800-424-9300 (USA/Ca	anada), +1-703-527- 3	3887 (Intl)
SECTION 2: Hazards identification			
	11110		
.1. Classification of the substance or mix	kture		
lassification according to Regulation (EC) No lot classified dverse physicochemical, human health and e	9. 1272/2008 [CLP] environmental effects	ed in accordance with	n good occupational hydiene and sa
2.1. Classification of the substance or mix Classification according to Regulation (EC) No Not classified Adverse physicochemical, human health and e To our knowledge, this product does not present a practice.	o. 1272/2008 [CLP] environmental effects any particular risk, provided it is handle	ed in accordance with	h good occupational hygiene and sa
Classification according to Regulation (EC) No Not classified Adverse physicochemical, human health and e To our knowledge, this product does not present a practice. C.2. Label elements abelling according to Regulation (EC) No. 127	o. 1272/2008 [CLP] environmental effects any particular risk, provided it is handle	ed in accordance with	h good occupational hygiene and sa
Classification according to Regulation (EC) No Not classified Adverse physicochemical, human health and e To our knowledge, this product does not present a practice. 2.2. Label elements abelling according to Regulation (EC) No. 127 No labelling applicable	o. 1272/2008 [CLP] environmental effects any particular risk, provided it is handle	ed in accordance with	h good occupational hygiene and sa
Classification according to Regulation (EC) No Not classified Adverse physicochemical, human health and e To our knowledge, this product does not present a practice. C.2. Label elements abelling according to Regulation (EC) No. 127	o. 1272/2008 [CLP] environmental effects any particular risk, provided it is handle	ed in accordance with	h good occupational hygiene and sa
Classification according to Regulation (EC) No Not classified Adverse physicochemical, human health and e To our knowledge, this product does not present a practice. 2.2. Label elements abelling according to Regulation (EC) No. 127 No labelling applicable 2.3. Other hazards	o. 1272/2008 [CLP] environmental effects any particular risk, provided it is handle	ed in accordance with	h good occupational hygiene and sa
Classification according to Regulation (EC) No Not classified Adverse physicochemical, human health and e To our knowledge, this product does not present a practice. 2.2. Label elements abelling according to Regulation (EC) No. 127 No labelling applicable 2.3. Other hazards	2. 1272/2008 [CLP] environmental effects any particular risk, provided it is handle 72/2008 [CLP]	ed in accordance with	h good occupational hygiene and sa
Classification according to Regulation (EC) No Not classified Adverse physicochemical, human health and e To our knowledge, this product does not present a practice. 2.2. Label elements Abelling according to Regulation (EC) No. 127 No labelling applicable 2.3. Other hazards No additional information available SECTION 3: Composition/information 3.1. Substances	2. 1272/2008 [CLP] environmental effects any particular risk, provided it is handle 72/2008 [CLP]	ed in accordance with	h good occupational hygiene and sa
Classification according to Regulation (EC) No Not classified Adverse physicochemical, human health and e To our knowledge, this product does not present a practice. 2.2. Label elements abelling according to Regulation (EC) No. 127 No labelling applicable 2.3. Other hazards No additional information available SECTION 3: Composition/information 3.1. Substances Not applicable	2. 1272/2008 [CLP] environmental effects any particular risk, provided it is handle 72/2008 [CLP]	ed in accordance with	h good occupational hygiene and sa
Classification according to Regulation (EC) No Not classified Adverse physicochemical, human health and e To our knowledge, this product does not present a practice. 2.2. Label elements Abelling according to Regulation (EC) No. 127 No labelling applicable 2.3. Other hazards No additional information available SECTION 3: Composition/information 3.1. Substances	2. 1272/2008 [CLP] environmental effects any particular risk, provided it is handle 72/2008 [CLP]	ed in accordance with	h good occupational hygiene and sa
Classification according to Regulation (EC) No lot classified adverse physicochemical, human health and e to our knowledge, this product does not present a ractice. 2. Label elements abelling according to Regulation (EC) No. 127 lo labelling applicable 3. Other hazards lo additional information available SECTION 3: Composition/information 3.1. Substances lot applicable	2. 1272/2008 [CLP] environmental effects any particular risk, provided it is handle 72/2008 [CLP]	ed in accordance with	h good occupational hygiene and sa Classification according t Regulation (EC) No. 1272/2008 [CLP]
Classification according to Regulation (EC) No lot classified adverse physicochemical, human health and e to our knowledge, this product does not present a ractice. .2. Label elements abelling according to Regulation (EC) No. 127 lo labelling applicable .3. Other hazards lo additional information available ECTION 3: Composition/information .1. Substances lot applicable .2. Mixtures	2. 1272/2008 [CLP] environmental effects any particular risk, provided it is handle 72/2008 [CLP]		Classification according t Regulation (EC) No.
Classification according to Regulation (EC) Note that the second state of the second s	•. 1272/2008 [CLP] •. 1272/2008 [CLP] •. 1272/2008 [CLP] •. 0n ingredients •. Product identifier	%	Classification according t Regulation (EC) No. 1272/2008 [CLP]

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.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.

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

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.

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	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 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		
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	and cleaning up	
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, include	ding 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.

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

	. ,		
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		
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			

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	
Sodium Chloride(NaCl) (7647-14-5)		
LD50 oral rat	> 3980 mg/kg bodyweight (Rat, Experimental value, 20% aqueous solution, Oral)	
LD50 dermal rabbit	> 10000 mg/kg (Rabbit, Experimental value, Dermal)	
LC50 inhalation rat (mg/l)	> 42 mg/l air (1 h, Rat, Male, Experimental value, 20% aqueous solution, Inhalation (aerosol))	
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

5 5 (-)	3	
STOT-single exposure	: Not classified	
STOT-repeated exposure	: Not classified	
Aspiration hazard	: Not classified	

SECTION 12: Ecological information 12.1. Toxicity		
	: 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	
Sodium Chloride(NaCl) (7647-14-5)		
LC50 fish 1	5840 mg/l (ASTM, 96 h, Lepomis macrochirus, Flow-through system, Fresh water, Experimental value)	
12.2. Persistence and degradability		
Sodium Chloride(NaCl) (7647-14-5)		
Persistence and degradability	Biodegradability: not applicable.	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
BOD (% of ThOD)	Not applicable	

2-amino-2-(hydroxymethyl)-1,3-propanediol, hydrochloride (1185-53-1)		
Persistence and degradability Biodegradability in water: no data available.		
12.3. Bioaccumulative potential		
Sodium Chloride(NaCl) (7647-14-5)		
Log Pow	-3 (Calculated)	
Bioaccumulative potential	Not bioaccumulative.	

2-amino-2-(hydroxymethyl)-1,3-propanediol, hydrochloride (1185-53-1)			
Bioaccumulative potential	No bioaccumulation data available.		
12.4. Mobility in soil			
Sodium Chloride(NaCl) (7647-14-5)			
Surface tension	73.03 mN/m (23 °C, 14.5 g/l)		
Ecology - soil	No (test)data on mobility of the substance available.		
12.5. Results of PBT and vPvB assessment			
Component			
Sodium Chloride(NaCl) (7647-14-5) 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			
No additional information available			

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

Proper Shipping Name (ADR)	: Not applicable	
14.2. UN proper shipping name	. Not oppliable	
UN-No. (RID)	: Not applicable	
UN-No. (ADN)	: Not applicable	
UN-No. (IATA)	: Not applicable	
UN-No. (IMDG)	: Not applicable	
UN-No. (ADR)	: Not applicable	
14.1. UN number		
In accordance with ADR / RID / IMDG / IATA /		
SECTION 14: Transport information	1	

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

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

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

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SECTION 16: Other information

Full text of H- and EUH-statements:	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

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.