

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. # R003

TE Buffer [100X]

Size: 100ml





TE Buffer [100X] (1M Tris, 0.1M EDTA, pH 8.0) 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 form : Mixture Product name : TE Buffer [100X] (1M Tris, 0.1M EDTA, pH 8.0) Product ode : 029T Synonyms : TE Buffer, Tris-EDTA Buffer Product group : 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./ G-Biosciences 9800 Page Avenue 63132-1429 Saint Louis - United States 1.4. Emergency telephone number Emergency number : Chemtrec 1-800-424-9300 (USA/Canada), +1-703-527-3887 (Intl) SECTION 2: Hazards Identification 2.1. Classification according to Regulation (EC) No. 1272/2008 [CLP] Not 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 hygiene and so practice. 2.1. Joil elemonts Labelling applicable	1.1. Product identifier Product form			
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SECTION 3: Composition/information on ingredients	2.3. Other hazards No additional information available			
3.1. Substances	2.3. Other hazards No additional information available	ingredients		
	2.3. Other hazards No additional information available SECTION 3: Composition/information on 3.1. Substances	ingredients		
3.2. Mixtures	2.3. Other hazards No additional information available SECTION 3: Composition/information on 3.1. Substances Not applicable	ingredients		
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	2.3. Other hazards No additional information available SECTION 3: Composition/information on 3.1. Substances Not applicable 3.2. Mixtures Name	Product identifier % (CAS-No.) 7732-18-5 >= (CAS-No.) 77-86-1 10	= 80	Regulation (EC) No. 1272/2008 [CLP]
disodium dihydrogen ethylenediaminetetraacetate, (CAS-No.) 6381-92-6 2 - 5 Not classified	2.3. Other hazards No additional information available SECTION 3: Composition/information on 3.1. Substances Not applicable 3.2. Mixtures Name Deionized water tris(hydroxymethyl)aminomethane	Product identifier % (CAS-No.) 7732-18-5 >= (CAS-No.) 77-86-1 10 (EC-No.) 201-064-4 10	= 80) - 50	Regulation (EC) No. 1272/2008 [CLP] Not classified Not classified
dihydrate (EC-No.) 205-358-3	2.3. Other hazards No additional information available SECTION 3: Composition/information on 3.1. Substances Not applicable 3.2. Mixtures Name Deionized water tris(hydroxymethyl)aminomethane disodium dihydrogen ethylenediaminetetraacetate,	Product identifier % (CAS-No.) 7732-18-5 >= (CAS-No.) 77-86-1 10 (EC-No.) 201-064-4 10 (CAS-No.) 6381-92-6 2 -	= 80) - 50	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 general	: If you feel unwell, seek medical advice.
First-aid measures after inhalation	: Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.
First-aid measures after skin contact	: Rinse with water. Soap may be used. Take victim to a doctor if irritation persists.
First-aid measures after eye contact	: Rinse with water. Remove contact lenses, if present and easy to do. Continue rinsing. Take victim to an ophthalmologist if irritation persists.

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First-aid measures after ingestion	: Rinse mouth with water. Call Poison Information Centre (www.big.be/antigif.htm). Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital.
4.2. Most important symptoms and effect	cts, both acute and delayed
Symptoms/effects after inhalation	: No effects known.
Symptoms/effects after skin contact	: No effects known.
Symptoms/effects after eye contact	: No effects known.
Symptoms/effects after ingestion	: No effects known.

Chronic symptoms : No effects known.

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	: Quick-acting ABC powder extinguisher. Class A foam extinguisher. Water (quick-acting extinguisher, reel). Water. Class A foam.
Unsuitable extinguishing media	: Quick-acting BC powder extinguisher. Quick-acting CO2 extinguisher.
5.2. Special hazards arising from the substa	nce or mixture
Fire hazard	: DIRECT FIRE HAZARD: Non-flammable. Most organic solids may burn if strongly heated.
Explosion hazard	: DIRECT EXPLOSION HAZARD: Most organic solids are liable to dust explosion hazard.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.
5.3. Advice for firefighters	
Precautionary measures fire	: Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: have neighbourhood close doors and windows.
Firefighting instructions	: Dilute toxic gases with water spray. Take account of toxic/corrosive precipitation water.
Protection during firefighting	: Heat/fire exposure: compressed air/oxygen apparatus.

SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equipr	nent and emergency procedures	
6.1.1. For non-emergency personnel		
Protective equipment	: Gloves. Protective clothing. Dust cloud production: compressed air/oxygen apparatus.	
Emergency procedures	: Mark the danger area. Prevent dust cloud formation, e.g. by wetting. No naked flames. Wash contaminated clothes.	
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	ind cleaning up	
For containment	: Contain released product, pump into suitable containers. Plug the leak, cut off the supply. Knock down/dilute dust cloud with water spray.	
Methods for cleaning up	 Stop dust cloud by humidifying. Scoop solid spill into closing containers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling. 	
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	: Avoid raising dust. In finely divided state: use spark-/explosionproof appliances. Finely divided: keep away from ignition sources/sparks. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Clean contaminated clothing. Powdered form: no compressed air for pumping over. Keep container tightly closed.
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 a	ny incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep cool.
Storage temperature	: ambient temperature
Heat and ignition sources	: KEEP SUBSTANCE AWAY FROM: heat sources. ignition sources.

TE Buffer [100X] (1M Tris, 0.1M EDTA, pH 8.0) Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Information on mixed storage	: KEEP SUBSTANCE AWAY FROM: oxidizing agents. (strong) bases. (strong) acids. metals. Halogenated hydrocarbons. water/moisture.
Storage area	: Store in a dry area. Keep container in a well-ventilated place. May be stored under inert gas. Store at room temperature. Keep out of direct sunlight. Meet the legal requirements.
Special rules on packaging	: SPECIAL REQUIREMENTS: closing. watertight. dry. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.
Packaging materials	: SUITABLE MATERIAL: steel. iron. synthetic material. MATERIAL TO AVOID: aluminium. copper. brass. zinc.
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.
Materials for protective clothing:
GIVE EXCELLENT RESISTANCE: nitrile rubber
Hand protection:
Protective gloves against chemicals (EN374)
Eye protection:
Safety glasses. In case of dust production: protective goggles
Skin and body protection:
Protective clothing
Respiratory protection:
Dust production: dust mask with filter type P1

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties	
9.1. Information on basic physical and che	
Physical state	: Liquid
Appearance	: Liquid.
Colour	: Clear.
Odour	: None.
Odour threshold	: No data available
рН	: 8
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	: -1.56
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available

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Explosive limits	: No data available
9.2. Other information	

No additional information available

SECTION 40. Stability and reactivity
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 in	formation	
11.1. Information on toxicologica	l effects	
Acute toxicity (oral)	: Not classified	
Acute toxicity (dermal)	: Not classified	
Acute toxicity (inhalation)	: Not classified	
TE Buffer [100X] (1M Tris, 0.1M EDTA, pH 8.0)		

LD50 oral rat

5900 mg/kg (Rat)

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
	pH: 8
Serious eye damage/irritation	: Not classified
	pH: 8
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.
Ecology - water	Mild water pollutant (surface water). pH shift. No data available on ecotoxicity.
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)

TE Buffer [100X] (1M Tris, 0.1M EDTA, pH 8.0) Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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 ethylenediaminetetraace	etate, 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	
TE Buffer [100X] (1M Tris, 0.1M EDTA, pH 8.0)	
Persistence and degradability	Biodegradability in water: no data available.
tris(hydroxymethyl)aminomethane (77-86-1)	
Persistence and degradability	Readily biodegradable in water.
disodium dihydrogen ethylenediaminetetraacetate, 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	
TE Buffer [100X] (1M Tris, 0.1M EDTA, pH 8.0)	
Log Pow	-1.56
Bioaccumulative potential	Bioaccumulation: not applicable.
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 ethylenediaminetetraaco	etate, dihydrate (6381-92-6)
Bioaccumulative 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.
Product/Packaging disposal recommendations	: Remove waste in accordance with local and/or national regulations. Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber with energy recovery. Specific preliminary treatment.
Additional information	: Can be considered as non hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.

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

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	is amendment Regulation (EO) 2015/630
UN-No. (IATA)	: Not regulated
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 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	
Transport regulations (ADR)	: Not subject
Transport by sea	
Not regulated	
Air transport	
Not regulated	
Inland waterway transport	
No data available	
Rail transport	
Transport regulations (RID)	: Not subject
14.7. Transport in bulk according to Annex I Not applicable	I 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.

15.1.2. National regulations

No additional information available

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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.