

CENCES® 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. # R017

Hybridization Neutralizing Solution (1M Tris.HCl (pH 7.4), 1.5M NaCl)

Size: 1 Liter





Hybridization Neutralizing Solution 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

OFOTION 4. Identification of the substance			
SECTION 1: Identification of the substance 1.1. Product identifier	ce/mixture and of the company	//undertakir	19
	Mixture		
Product name	Hybridization Neutralizing Solution		
	676H		
	Blend		
1.2. Relevant identified uses of the substance	or mixture and uses advised aga	inst	
1.2.1. Relevant identified uses	g-		
	Research purposes		
1.2.2. Uses advised against			
No additional information available			
1.3. Details of the supplier of the safety data s Geno Technology, Inc./ G-Biosciences	heet		
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	<u> </u>		
	emtrec 1-800-424-9300 (USA/Canada),	+1-703-527-38	87 (Intl)
0,			、 <i>,</i>
SECTION 2: Hazards identification			
2.1. Classification of the substance or mixture)		
Classification according to Regulation (EC) No. 127	2/2008 [CL P]		
of assinction according to Regulation (EO) No. 127			
Not classified			
Adverse physicochemical, human health and enviro	nmental effects		
To our knowledge, this product does not present any pa		cordance with o	nood occupational hygiene and safety
practice.			jood oocupational hygiono and baloty
2.2. Label elements			
Labelling according to Regulation (EC) No. 1272/200			
No labelling applicable			
2.3. Other hazards			
No additional information available			
SECTION 3: Composition/information on	ingredients		
3.1. Substances			
Not applicable			
3.2. Mixtures			
Name	Product identifier	%	Classification according to
			Regulation (EC) No.
			1272/2008 [CLP]
Deionized water	(CAS-No.) 7732-18-5	> 75	Not classified
tris(hydroxymethyl)aminomethane	(CAS-No.) 77-86-1	10 - 50	Not classified
	(EC-No.) 201-064-4		
	(LC-INO.) 201-004-4		

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 effect	s, 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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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	: 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	
6.1. Personal precautions, protective equipr	nent 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	Ind 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	. Ensure and westilation of the west station. Mean according to the two stations and
Precautions for safe handling Hygiene measures	: Ensure good ventilation of the work station. Wear personal protective equipment. : 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 Storage conditions	ny incompatibilities : Store in a well-ventilated place. Keep cool.
Storage temperature	: RT
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/persona	Introtection
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 respi	ratory equipment
Environmental exposure controls:	
Avoid release to the environment.	
SECTION OF Division Land shawing how	
SECTION 9: Physical and chemical prop 9.1. Information on basic physical and chem	

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9.1. Information on basic physical and chem	ical properties
Physical state	: Liquid
Colour	: Clear.

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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	
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Acute toxicity (oral)	: Not classified
	: 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)
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
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)
12.2. Persistence and degradability	
tris(hydroxymethyl)aminomethane (77-86	-1)
Persistence and degradability	Readily biodegradable in water.
12.3. Bioaccumulative potential	
tris(hydroxymethyl)aminomethane (77-86	i-1)
Log Pow	-2.31 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C)
Bioaccumulative potential	Not bioaccumulative.
12.4. Mobility in soil	
tris(hydroxymethyl)aminomethane (77-86	j-1)
Log Koc	1.87 (log Koc, QSAR)
Ecology - soil	Highly mobile in soil.
12.5. Results of PBT and vPvB assessmer	
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	
14.1. UN number	N
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	NT-6
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
	. Not regulated

Transport hazard class(es) (IATA)

ΙΑΤΑ

: Not regulated

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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	
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 I	l 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

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.