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A Geno Technology, Inc. (USA) brand name

Safety Data Sheet

Cat. # BTNM-0013

BamHI Enzyme, 2500 U, with 10X reaction buffer

Size: 2500U





Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 11/30/2016 Revision date: 05/11/2017 Version: 7.1

SECTION 1: Identification		
1.1. Identification		
	: Mixture	
Product name	: BamHI Enzyme, 2500 U,	
Product code	: B111	
1.2. Recommended use and restrictions o	n use	
No additional information available		
1.3. Supplier		
Geno Technology, Inc./ G-Biosciences		
9800 Page Avenue Saint Louis, 63132-1429 - United States		
T 800-628-7730 - F 314-991-1504		
technical@GBiosciences.com - www.GBioscience	<u>s.com</u>	
1.4. Emergency telephone number		
Emergency number	: Chemtrec 1-800-424-9300 (USA/Canada), +1-703-527-3887 (Intl)	
SECTION 2: Hazard(s) identification		
2.1. Classification of the substance or mix	(4) JPA	
GHS US classification		
Not classified		
2.2. GHS Label elements, including preca	utionary statements	
GHS US labeling	·	
No labeling applicable		
2.3. Other hazards which do not result in the	classification	
No additional information available	Substitution	
2.4. Unknown acute toxicity (GHS US)		
Not applicable		
SECTION 3: Composition/Information	on ingredients	
3.1. Substances	on ingreatents	
Not applicable		
3.2. Mixtures		
This mixture does not contain any substances to b	e mentioned according to the criteria of section 3.2 of HazCom 2012	
SECTION 4: First-aid measures		
4.1. Description of first aid measures		
	: 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.	
	: Call a poison center/doctor/physician if you feel unwell.	
4.2. Most important symptoms and effects (acute and delayed)		
No additional information available		
4.3. Immediate medical attention and special treatment, if necessary		
4.3. Immediate medical attention and special treatment, if necessary Treat symptomatically.		
SECTION 5: Fire-fighting measures		
5.1. Suitable (and unsuitable) extinguishir		
	: Water spray. Dry powder. Foam. Carbon dioxide.	
5.2. Specific hazards arising from the chemical		
No additional information available		

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.3. Special protective equipment and precautions for fire-fighters		
	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.	
SECTION 6: Accidental release measure	Ires	
6.1. Personal precautions, protective equi		
6.1.1. For non-emergency personnel		
	: 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 containmen	t 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, including	any incompatibilities	
Storage conditions	: Store in a well-ventilated place. Keep cool.	
SECTION 8: Exposure controls/perso		
SECTION 8: Exposure controls/perso 8.1. Control parameters		
SECTION 8: Exposure controls/perso		
SECTION 8: Exposure controls/perso 8.1. Control parameters BamHI Enzyme, 2500 U,		
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SECTION 8: Exposure controls/perso 8.1. Control parameters BamHI Enzyme, 2500 U, No additional information available 8.2. Appropriate engineering controls	nal protection	
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SECTION 8: Exposure controls/perso 8.1. Control parameters BamHI Enzyme, 2500 U, No additional information available 8.2. Appropriate engineering controls Appropriate engineering controls	Ensure good ventilation of the work station. Avoid release to the environment.	
SECTION 8: Exposure controls/perso 8.1. Control parameters BamHI Enzyme, 2500 U, No additional information available 8.2. Appropriate engineering controls Appropriate engineering controls Environmental exposure controls	Ensure good ventilation of the work station. Avoid release to the environment.	
SECTION 8: Exposure controls/perso 8.1. Control parameters BamHI Enzyme, 2500 U, No additional information available 8.2. Appropriate engineering controls Appropriate engineering controls Environmental exposure controls 8.3. Individual protection measures/Perso	Ensure good ventilation of the work station. Avoid release to the environment.	
SECTION 8: Exposure controls/perso 8.1. Control parameters 8.2. Appropriate engineering controls Appropriate engineering controls Environmental exposure controls 8.3. Individual protection measures/Perso Hand protection: Control	Ensure good ventilation of the work station. Avoid release to the environment.	
SECTION 8: Exposure controls/perso 8.1. Control parameters BamHI Enzyme, 2500 U, No additional information available 8.2. Appropriate engineering controls Appropriate engineering controls Environmental exposure controls 8.3. Individual protection measures/Perso Hand protection: Protective gloves	Ensure good ventilation of the work station. Avoid release to the environment.	
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SECTION 8: Exposure controls/perso 8.1. Control parameters BamHI Enzyme, 2500 U, No additional information available 8.2. Appropriate engineering controls Appropriate engineering controls Environmental exposure controls 8.3. Individual protection measures/Perso Hand protection: Protective gloves Eye protection: Safety glasses Skin and body protection: Wear suitable protection: In case of insufficient ventilation, wear suitable reference	nal protection Ensure good ventilation of the work station. Avoid release to the environment. anal protective equipment espiratory equipment	
SECTION 8: Exposure controls/perso 8.1. Control parameters BamHI Enzyme, 2500 U, No additional information available 8.2. Appropriate engineering controls Appropriate engineering controls Environmental exposure controls 8.3. Individual protection measures/Perso 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 resultable protection SECTION 9: Physical and chemical protection prote	nal protection Ensure good ventilation of the work station. Avoid release to the environment. anal protective equipment espiratory equipment	

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Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

No additional information available

SECTION 10, Stobility and recetivity		
SECTION 10: Stability and reactivity 10.1. Reactivity		
	ions of use storage and transport	
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 co	nditions of use.	
10.4. Conditions to avoid		
None under recommended storage and handling	g conditions (see section 7).	
10.5. Incompatible materials		
No additional information available		
10.6. Hazardous decomposition products		
Hazardous decomposition products.		
SECTION 11: Toxicological informat	ion	
11.1. Information on toxicological effects		
Acute toxicity (oral)	: Not classified	
Acute toxicity (dermal)	: Not classified	
Acute toxicity (inhalation)	: Not classified	
Skin corrosion/irritation	: Not classified	
Serious eye damage/irritation	: Not classified	
Respiratory or skin sensitization	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	

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Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available

SECTION 12: Ecological information		
12.1.	Toxicity	
Ecology	/ - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
12.2.	Persistence and degradability	
No add	itional information available	
12.3.	Bioaccumulative potential	
No add	itional information available	
12.4.	Mobility in soil	
No add	tional information available	
12.5.	Other adverse effects	

No additional information available

SECTION 13: Disposal conside	rations
13.1. Disposal methods Waste treatment methods Image: Comparison of the second secon	: Waste treatment methods.
SECTION 14: Transport inform	
Department of Transportation (DOT) In accordance with DOT	
Not applicable	
Transportation of Dangerous Goods	
Not applicable	
Transport by sea	
Not applicable	
Air transport	
Not applicable	
SECTION 15: Regulatory inform	nation
15.1. US Federal regulations	
No additional information available	
15.2. International regulations	
CANADA	
EU-Regulations	

National regulations No additional information available

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SECTION 16: Other information

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Revision date

: 05/11/2017

SDS US (GHS HazCom 2012)

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 Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 01/01/2017 Revision date: 05/11/2017 Version: 7.1

SECTION 1: Identification	
1.1. Identification	
Product form : Mixture	
Product name : Restriction Digestion Buffer [10X]	
Product code : R003	
1.2. Recommended use and restrictions on use	
No additional information available	
1.3. Supplier	
Geno Technology, Inc./ G-Biosciences	
9800 Page Avenue	
Saint Louis, 63132-1429 - United States T 800-628-7730 - F 314-991-1504	
technical@GBiosciences.com - www.GBiosciences.com	
1.4. Emergency telephone number	
Emergency number : Chemtrec 1-800-424-9300 (USA/Car	ada) +1-703-527-3887 (Intl)
SECTION 2: Hazard(s) identification	
2.1. Classification of the substance or mixture	
GHS US classification	
Not classified	
2.2. GHS Label elements, including precautionary statements	
GHS US labeling	
No labeling applicable	
2.3. Other hazards which do not result in classification	
No additional information available	
2.4. Unknown acute toxicity (GHS US)	
Not applicable	
SECTION 3: Composition/Information on ingredients	
3.1. Substances	
Not applicable	
3.2. Mixtures	
This mixture does not contain any substances to be mentioned according to the criteria of	section 3.2 of HazCom 2012
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 precautio	n.
First-aid measures after ingestion : Call a poison center/doctor/physician	if you feel unwell.
4.2. Most important symptoms and effects (acute and delayed)	
No additional information available	
4.3. Immediate medical attention and special treatment, if necessary	
Treat symptomatically.	
SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguishing media	
Suitable extinguishing media : Water spray. Dry powder. Foam. Car	bon dioxide.
5.2. Specific hazards arising from the chemical	
No additional information available	
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5.3. Special protective equipment and precautions for fire-fighters		
Protectio	on during firefighting :	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTI	ON 6: Accidental release measu	res
6.1.	Personal precautions, protective equi	oment and emergency procedures
6.1.1. Emerger	For non-emergency personnel ncy procedures :	Ventilate spillage area.
6.1.2. Protectiv	For emergency responders re 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 re	lease 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 inf	formation	Dispose of materials or solid residues at an authorized site.
6.4.	Reference to other sections	
	er information refer to section 13.	
	ON 7: Handling and storage	
7.1.	Precautions for safe handling	For every second second lattice of the second statice. Mission encounter the test statice and second
		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	
Storage		Store in a well-ventilated place. Keep cool.
Storage	temperature :	-20 °C
SECTI	ON 8: Exposure controls/persor	nal protection
8.1.	Control parameters	
Restrie	ction Digestion Buffer [10X]	
No add	litional information available	
8.2.	Appropriate engineering controls	
Appropri	ate engineering controls :	Ensure good ventilation of the work station.
Environr	nental exposure controls :	Avoid release to the environment.
8.3.	Individual protection measures/Person	nal protective equipment
Hand	protection:	
Protec	tive gloves	
Eye pr	otection:	
Safety	glasses	
Skin and body protection:		
Wear suitable protective clothing		
Respir	atory protection:	
In case	e of insufficient ventilation, wear suitable re	spiratory equipment
SECTI	ON 9: Physical and chemical pro	operties

9.1.	Information on basic physical and ch	nemical properties
Physical	state	: Liquid

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Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: 7.9
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactive	/ity		
10.1. Reactivity			
The product is non-reactive under normal co	The product is non-reactive under normal conditions of use, storage and transport.		
10.2. Chemical stability	10.2. Chemical stability		
Stable under normal conditions.			
10.3. Possibility of hazardous reaction	ns		
No dangerous reactions known under norma	Il conditions of use.		
10.4. Conditions to avoid			
None under recommended storage and hand	dling conditions (see section 7).		
10.5. Incompatible materials			
No additional information available	No additional information available		
10.6. Hazardous decomposition produ	10.6. Hazardous decomposition products		
Hazardous decomposition products.			
SECTION 11: Toxicological information			
11.1. Information on toxicological effe	ects		
Acute toxicity (oral)	: Not classified		
Acute toxicity (dermal)	: Not classified		
Acute toxicity (inhalation)	: Not classified		
Skin corrosion/irritation	: Not classified		
	pH: 7.9		
Serious eye damage/irritation : Not classified			
Poppiratory or akin consistization	pH: 7.9 : Not classified		
Respiratory or skin sensitization Germ cell mutagenicity	: Not classified		

Carcinogenicity

: Not classified

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Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposure	: Not classified
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available

SECTION 12: Ecological information					
12.1.	Toxicity				
Ecology	- general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.			
12.2.	Persistence and degradability				
No additional information available					
12.3.	Bioaccumulative potential				
No additional information available					
12.4.	Mobility in soil				
No additional information available					
12.5.	Other adverse effects				
No additional information available					

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

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated

Transportation of Dangerous Goods

Transport by sea

Not regulated

Air transport

Not regulated

SECTION 15:	Regulator	v information
	Regulator	ymnormation

15.1. US Federal regulations

No additional information available

15.2. International regulations

CANADA

EU-Regulations

National regulations No additional information available

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15.3. US State regulations

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date

: 05/11/2017

SDS US (GHS HazCom 2012)

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