

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. # 786-326

ProteCEASE[™]-50, EDTA free

Size: 10 Vials





Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 06/03/2013 Revision date: 05/11/2017 Version: 7.1

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Product rom : Substance Substance name : ProteCEASE Buffer Product code : a03P 12. Recommended use and restrictions on use No additional information available	SECTION 1: Identification		
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5.2. Specific hazards arising from the chemical			
No additional information available 06/28/2019 EN (English US) Page 1			Dage (

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5.3. Special protective equipment and pro	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release meas	ures
6.1. Personal precautions, protective equ	ipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area.
6.4.2 For emergency responders	
6.1.2. For emergency responders Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information
Flotective equipment	refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	· · ·
Avoid release to the environment.	
6.3. Methods and material for containmer	•
Methods for cleaning up	: Mechanically recover the product.
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	g any incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep cool.
	und was to a them
SECTION 8: Exposure controls/perso	inal protection
8.1. Control parameters	
ProteCEASE Buffer	
No additional information available	
8.2. Appropriate engineering controls	
Appropriate engineering controls	: Ensure good ventilation of the work station.
Environmental exposure controls	: Avoid release to the environment.
8.3. Individual protection measures/Perso	onal protective equipment
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 r	espiratory equipment
SECTION 9: Physical and chemical p	roperties
9.1. Information on basic physical and ch	
and and an an asic physical and th	pemical properties
Physical state	
Physical state Color	emical properties : Solid : No data available

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Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: Not applicable
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: Not applicable
Explosive properties	: No data available
Oxidizing properties	: 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	Chemical stability		
Stable under normal conditions.			
10.3. Possibility of hazardous reactions	. Possibility of hazardous reactions		
No dangerous reactions known under normal co	onditions 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	S		
Hazardous decomposition products.			
SECTION 11: Toxicological information	tion		
11.1. Information on toxicological effects	3		
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		
Specific target organ toxicity – single exposure	: Not classified		

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

SECT	ION 12: Ecological information	
12.1.	Toxicity	
Ecology	r - 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 addi	tional information available	
12.3.	Bioaccumulative potential	
No addi	tional information available	
12.4.	Mobility in soil	
No addi	tional information available	
12.5.	Other adverse effects	

No additional information available

SECTION 42: Dispassi consideration	
SECTION 13: Disposal consideration 13.1. Disposal methods	ons
Waste treatment methods	: Waste treatment methods.
SECTION 14: Transport information	h
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: Regulatory information	bn
15.1. US Federal regulations	
No additional information available	
15.2. International regulations	
CANADA	

EU-Regulations

National regulations No additional information available

15.3. US State regulations

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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.



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BIOSCIEINCES	
SECTION 1: Identification	
1.1. Identification	
Product form	: Mixture
Product name	: ProteCEASE™-50, EDTA free
Product code	: 427P
1.2. Recommended use and res No additional information available	strictions on use
1.3. Supplier	
Geno Technology, Inc./ G-Biosciences 9800 Page Avenue	
Saint Louis, 63132-1429 - United State	98
T 800-628-7730 - F 314-991-1504	
technical@GBiosciences.com - www.G	ISIOSCIENCES.COM
1.4. Emergency telephone num	ber
Emergency number	: Chemtrec 1-800-424-9300 (USA/Canada), +1-703-527-3887 (Intl)
SECTION 2: Hazard(s) identif	ication
2.1. Classification of the substa	ance or mixture
GHS US classification	
Respiratory sensitization, Category 1 Skin sensitization, Category 1	H334 May cause an allergy or asthma symptoms or breathing difficulties if inhaled H317 May cause an allergic skin reaction
Full text of H statements : see section	,
Full text of A statements . see section	10
2.2. GHS Label elements, inclu	ding precautionary statements
GHS US labeling	
Hazard pictograms (GHS US)	
Signal word (GHS US)	: Danger
Hazard statements (GHS US)	: H317 - May cause an allergic skin reaction
× ,	H334 - May cause an allergy or asthma symptoms or breathing difficulties if inhaled
Precautionary statements (GHS US)	: P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
	P272 - Contaminated work clothing must not be allowed out of the workplace P280 - Wear protective gloves/protective clothing/eye protection/face protection.
	P284 - [In case of inadequate ventilation] wear respiratory protection.
	P302+P352 - If on skin: Wash with plenty of water
	P304+P341 - If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing
	P321 - Specific treatment (see supplemental first aid instruction on this label)
	P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
	P342+P311 - If experiencing respiratory symptoms: Call a poison center or doctor P363 - Wash contaminated clothing 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 which do no	t result in classification
No additional information available	
2.4. Unknown acute toxicity (G	HS US)
Not applicable	
SECTION 3: Composition/Infe	ormation on ingredients
3.1. Substances	
Not applicable	
3.2. Mixtures	

Mixtures 3.2.

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Name	Common Name (Synonyms)	Product identifier	%	GHS US classification
Aprotinin	antikrein / antilysin / antilysine / basic pancreatic trypsin inhibitor / bovine basic pancreatic trypsin inhibitor / bovine pancreatic trypsin inhibitor / bovine trypsin inhibitor / BPTI / BPTI trypsin inhibitor / kallikrein inactivator / kallikrein- trypsin inactivator / kir richter / kunitz pancreatic trypsin inhibitor / kunitz protease inhibitor / kunitz trypsin inhibitor / kunitz-type inhibitor / kunitz-type proteinase inhibitor / kunitz-type proteinase inhibitor / pancreatic trypsin inhibitor / pancreatic trypsin inhibitor / pancreatic trypsin inhibitor (kunitz) / protease inhibitor, kunitz type / trypsin inhibitor, kunitz type / trypsin inhibitor, trypsin inhibitor, pancreatic basic / trypsin-kallikrein inhibitor (kunitz)	(CAS-No.) 9087-70-1	0.05 - 0.5	Resp. Sens. 1, H334 Skin Sens. 1, H317

Full text of hazard classes and 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/doctor/physician if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or a doctor.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center/doctor/physician if you feel unwell.
4.2. Most important symptoms and effect	cts (acute and delayed)
Symptoms/effects after inhalation	: May cause an allergy or asthma symptoms or breathing difficulties if inhaled.
Symptoms/effects after skin contact	: May cause an allergic skin reaction.
4.3. Immediate medical attention and sp	ecial treatment, if necessary
Treat symptomatically.	
SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguisl	ning media
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Specific hazards arising from the cl	nemical
No additional information available	
5.3. Special protective equipment and p	recautions for fire-fighters
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release mea	sures
6.1. Personal precautions, protective eq	uipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.
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 containme	ent and cleaning up
Methods for cleaning up	: Take up liquid spill into absorbent material.
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Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
For further information refer to section 1	3.
SECTION 7: Handling and sto	rage
7.1. Precautions for safe handlin	lg
Precautions for safe handling	: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Wear personal protective equipment.
Hygiene measures	: Contaminated work clothing should not be allowed out of the workplace. 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,	including any incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep cool.
Storage temperature	: 4 °C
SECTION 8: Exposure control	s/personal protection
8.1. Control parameters	

ProteCEASE IM-50, EDTA free	
No additional information available	
Aprotinin (9087-70-1)	
No additional information available	

8.2.	Appropriate engineering controls	
Appropriate engineering controls		: Ensure good ventilation of the work station.
Environmental exposure controls		: Avoid release to the environment.
8.3.	Individual protection measures/Per	rsonal protective equipment
Hand protection:		

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Wear respiratory protection.

SECTION 9: Physical and chemical properties					
9.1. Information on basic physical and	d chemical properties				
Physical state	: Liquid				
Color	: No data available				
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				

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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 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	
Skin corrosion/irritation	: Not classified	
Serious eye damage/irritation	: Not classified	
Respiratory or skin sensitization	: May cause an allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
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	
Symptoms/effects after inhalation	: May cause an allergy or asthma symptoms or breathing difficulties if inhaled.	
Symptoms/effects after skin contact	: May cause an allergic skin reaction.	

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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 Aprotinin (9087-70-1)				
Persistence and degradability	Biodegradability in water: no data available.			
12.3. Bioaccumulative potential				
Aprotinin (9087-70-1)				
Bioaccumulative potential	No bioaccumulation data 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: Regulatory information
15.1. US Federal regulations
Aprotinin (9087-70-1)
Not listed on the United States TSCA (Toxic Substances Control Act) inventory
15.2. International regulations
CANADA

EU-Regulations

National regulations No additional information available

15.3. US State regulations

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Full text of H-phrases:

H317	May cause an allergic skin reaction	
H334	May cause an allergy or asthma symptoms or breathing difficulties if inhaled	

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