

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. # 786-401

# OmniPrep<sup>™</sup> for Mouse Tail

Size: For 200cm Mouse Tail





Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 04/22/2016 Revision date: 05/11/2017 Version: 7.1

SECTION 1: Identification		
1.1. Identification		
	: Mixture	
	: TE Buffer	
	: 036T_T041	
1.2. Recommended use and restrictions of		
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	s.com	
1.4. Emergency telephone 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	(ture	
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	classification	
No additional information available		
2.4. Unknown acute toxicity (GHS US)		
Not applicable		
<b>SECTION 3: Composition/Information</b>	on ingredients	
3.1. Substances		
Not applicable		
3.2. Mixtures		
This mixture does not contain any substances to h	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	Demonstration to force all and the second state by feedback to be addition	
	: Remove person to fresh air and keep comfortable for breathing.	
	: Wash skin with plenty of water. : Rinse eyes with water as a precaution.	
-	: Call a poison center/doctor/physician if you feel unwell.	
-		
4.2. Most important symptoms and effects No additional information available	s (acute and delayed)	
4.3. Immediate medical attention and spec	cial treatment, if necessary	
Treat symptomatically.		
SECTION 5: Fire-fighting measures		
5.1. Suitable (and unsuitable) extinguishir		
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.	
5.2. Specific hazards arising from the che	mical	
No additional information available		
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5.3.	Special protective equipment and pre-	cautions for fire-fighters
Protectio	on during firefighting	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECT	ON 6: Accidental release measu	ires
6.1.	Personal precautions, protective equi	pment and emergency procedures
6.1.1.	For non-emergency personnel	
Emerge	ncy procedures :	Ventilate spillage area.
6.1.2.	For emergency responders	
Protectiv		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	t and cleaning up
	•	Take up liquid spill into absorbent material.
Other in	formation	Dispose of materials or solid residues at an authorized site.
6.4.	Reference to other sections	
	ner information refer to section 13.	
SECT	ON 7: Handling and storage	
7.1.	Precautions for safe handling	
	5	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	
Storage	conditions :	Store in a well-ventilated place. Keep cool.
0		
	ON 8: Exposure controls/persor	nal protection
	ON 8: Exposure controls/person Control parameters	nal protection
SECT	Control parameters	nal protection
SECTI 8.1. TE Bu	Control parameters	nal protection
SECTI 8.1. TE Bu	Control parameters ffer	nal protection
SECTI 8.1. TE Bu	Control parameters ffer	nal protection
<b>SECTI</b> 8.1. <b>TE Bu</b> No add	Control parameters  ffer  ditional information available  Appropriate engineering controls	Ensure good ventilation of the work station.
<b>SECT</b> 8.1. <b>TE Bu</b> No add 8.2. Appropr	Control parameters  ffer  ditional information available  Appropriate engineering controls iate engineering controls	
<b>SECT</b> 8.1. <b>TE Bu</b> No add 8.2. Appropr	Control parameters  ffer  ditional information available  Appropriate engineering controls iate engineering controls	Ensure good ventilation of the work station. Avoid release to the environment.
SECTI 8.1. TE Bu No add 8.2. Appropr Environr 8.3.	Control parameters         ffer         ditional information available         Appropriate engineering controls         iate engineering controls         mental exposure controls	Ensure good ventilation of the work station. Avoid release to the environment.
SECTI 8.1. TE Bu No add 8.2. Appropr Environr 8.3. Hand	Control parameters         ffer         ditional information available         Appropriate engineering controls         iate engineering controls         mental exposure controls         Individual protection measures/Person         protection:	Ensure good ventilation of the work station. Avoid release to the environment.
SECT 8.1. TE Bu No add 8.2. Appropr Environr 8.3. Hand Protect	Control parameters         ffer         ditional information available         Appropriate engineering controls         iate engineering controls         mental exposure controls         Individual protection measures/Person         protection:         tive gloves	Ensure good ventilation of the work station. Avoid release to the environment.
SECTI 8.1. TE Bu No add 8.2. Appropr Environr 8.3. Hand Protect Eye pr	Control parameters         ffer         ditional information available         Appropriate engineering controls         iate engineering controls         mental exposure controls         Individual protection measures/Person         protection:         tive gloves         rotection:	Ensure good ventilation of the work station. Avoid release to the environment.
SECT 8.1. TE Bu No add 8.2. Appropr Environr 8.3. Hand Protect Eye pr Safety	Control parameters         ffer         ditional information available         Appropriate engineering controls         iate engineering controls         mental exposure controls         Individual protection measures/Person         protection:         tive gloves         rotection:         glasses	Ensure good ventilation of the work station. Avoid release to the environment.
SECT 8.1. TE Bu No add 8.2. Appropr Environr 8.3. Hand Protect Eye pr Safety Skin a	Control parameters         ffer         ditional information available         Appropriate engineering controls         iate engineering controls         inental exposure controls         Individual protection measures/Person         protection:         glasses         nd body protection:	Ensure good ventilation of the work station. Avoid release to the environment.
SECT 8.1. TE Bu No add 8.2. Appropr Environr 8.3. Hand Protect Eye pr Safety Skin a	Control parameters         ffer         ditional information available         Appropriate engineering controls         iate engineering controls         mental exposure controls         Individual protection measures/Person         protection:         tive gloves         rotection:         glasses	Ensure good ventilation of the work station. Avoid release to the environment.
SECT 8.1. TE Bu No add 8.2. Appropr Environr 8.3. Hand Protect Eye pr Safety Skin a Wear s	Control parameters         ffer         ditional information available         Appropriate engineering controls         iate engineering controls         inental exposure controls         Individual protection measures/Person         protection:         glasses         nd body protection:	Ensure good ventilation of the work station. Avoid release to the environment.
SECT 8.1. TE Bu No add 8.2. Appropr Environr 8.3. Hand Protect Eye pr Safety Skin a Wear s Respin	Control parameters         ffer         ditional information available         Appropriate engineering controls         iate engineering controls         iate engineering controls         mental exposure controls         Individual protection measures/Perso         protection:         glasses         nd body protection:         suitable protective clothing	Ensure good ventilation of the work station.     Avoid release to the environment. nal protective equipment
SECT 8.1. TE Bu No add 8.2. Appropr Environr 8.3. Hand Protec Eye pr Safety Skin a Wear s Respin In case	Control parameters         ffer         ditional information available         Appropriate engineering controls         iate engineering controls         iate engineering controls         mental exposure controls         Individual protection measures/Person         protection:         glasses         nd body protection:         suitable protective clothing         ratory protection:	Ensure good ventilation of the work station. Avoid release to the environment. nal protective equipment spiratory equipment
SECT 8.1. TE Bu No add 8.2. Appropr Environr 8.3. Hand Protec Eye pr Safety Skin a Wear s Respin In case	Control parameters         ffer         ditional information available         Appropriate engineering controls         iate engineering controls         iate engineering controls         mental exposure controls         Individual protection measures/Perso         protection:         glasses         nd body protection:         suitable protective clothing         ratory protection:         e of insufficient ventilation, wear suitable re	<ul> <li>Ensure good ventilation of the work station.</li> <li>Avoid release to the environment.</li> <li>nal protective equipment</li> <li>spiratory equipment</li> </ul>
SECTI 8.1. TE Bu No add 8.2. Appropr Environr 8.3. Hand Protect Eye pr Safety Skin a Wear s Respin In case	Control parameters  ffer  ditional information available  Appropriate engineering controls iate engineering controls iate engineering controls inental exposure controls  Individual protection measures/Perso protection: tive gloves rotection: glasses nd body protection: suitable protective clothing ratory protection: e of insufficient ventilation, wear suitable re  ON 9: Physical and chemical pr Information on basic physical and chemical pr	<ul> <li>Ensure good ventilation of the work station.</li> <li>Avoid release to the environment.</li> <li>nal protective equipment</li> <li>spiratory equipment</li> </ul>

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Odor	: None
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: Stability and reactivity	
10.1. Reactivity	
The product is non-reactive under normal condit	tions 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	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.	
<b>SECTION 11: Toxicological informat</b>	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

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

SECT	ON 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 addi	ional information available	
12.3.	Bioaccumulative potential	
No addi	ional information available	
12.4.	Mobility in soil	
No addi	ional information available	
12.5.	Other adverse effects	
No addit	ional information available	

SECTION 13: Disposal consideration	ns
13.1. Disposal methods	
Waste treatment methods	: Waste treatment methods.
<b>SECTION 14: Transport information</b>	
Department of Transportation (DOT)	
In accordance with DOT	
Other information	: No supplementary information available.
Transportation of Dangerous Goods	
Transport by sea	
Air transport	
SECTION 15: Regulatory information	n
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**

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)

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: 05/18/2016 Revision date: 03/29/2018 Version: 7.2

SECTION 1: Identification	
1.1. Identification	
Product form	: Mixture
Product name	: Genomic Lysis Buffer
Product code	: 068G
1.2. Recommended use and restriction	is 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	nces.com
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	
	Inixture
GHS US classification	
Not classified	
2.2. GHS Label elements, including pre	ecautionary 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	
<b>SECTION 3: Composition/Informati</b>	on on ingredients
3.1. Substances	
Not applicable	
3.2. Mixtures	

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Name	Common Name (Synonyms)	Product identifier	%	GHS US classification
TAB (Hexadecyltrimethylammonium omide)	(1-hexadecyl)trimethylammonium bromide / 1-hexadecanaminium, N,N,N-trimethyl-, bromide / acetoquat CTAB / ammonium, hexadecyltrimethyl-, bromide / bromat / CEE DEE / centimide / cetarol / cetrimonium bromide / cetyl trimethylammonium bromide / cetyltrimethylammonium bromide / cetyltrimethylammonium bromide / cirrasol-OD / CTAB / CTAB / ctmab / cycloton V / hexadecyltrimethylazanium bromide / hexadecyltrimethylazanium bromide / LAUROSEPTOL / lissolamine / lissolamine A / lissolamine V / micol / N,N,N- trimethyl-1-hexadecanaminium bromide / N,N,N- trimethylhexadecan-1-aminium bromide / N,N,N- trimethylammonium bromide / N- cetyltrimethylammonium bromide / N-cetyl-N,N,N- trimethylammonium bromide / N- cetyltrimethylammonium bromide / N-Nexadecyl-N,N- trimethylammonium bromide / N-hexadecyl trimethylammonium bromide / pollacid / quamonium / SOFTEX KW / suticide / trimethylexadecylammonium bromide /	(CAS-No.) 57-09-0	< 2	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT RE 2, H373 Aquatic Acute 1, H400

Full text of hazard classes and H-statements : see section 16

<b>SECTION 4: First-aid measu</b>	res
4.1. Description of first aid me	asures
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	<ul> <li>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.</li> </ul>
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)
Symptoms/effects after eye contact	: Eye irritation.
4.3. Immediate medical attention	on and special treatment, if necessary
Treat symptomatically.	
SECTION 5: Fire-fighting me	asures
5.1. Suitable (and unsuitable)	extinguishing media
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Specific hazards arising fr	om the chemical
No additional information available	
5.3. Special protective equipm	ent and precautions for fire-fighters
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
<b>SECTION 6: Accidental relea</b>	se measures
6.1. Personal precautions, pro	tective equipment and emergency procedures
6.1.1. For non-emergency perso	nnel
Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes.

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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 containmer	nt and cleaning up
For containment	: Collect spillage.
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. Avoid contact with skin and eyes.
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.
SECTION 8: Exposure controls/perso	nal protection
8.1. Control parameters	
Genomic Lysis Buffer	
No additional information available	
CTAB (Hexadecyltrimethylammonium bromic	de) (57-09-0)
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 respiratory equipment

9.1. Information on basic	physical and chemical properties
Physical state	: Liquid
Color	: No data available
Odor	: Odourless
Odor threshold	: No data available
рН	: No data available
Melting point	: Not applicable

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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 reactivi	ity
10.1. Reactivity	ity
The product is non-reactive under normal cor	iditions of use storage and transport
•	
10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous reaction	
No dangerous reactions known under normal	conditions of use.
10.4. Conditions to avoid	
None under recommended storage and hand	ling conditions (see section 7).
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition produ	cts
Hazardous decomposition products.	
SECTION 11: Toxicological inform	ation
11.1. Information on toxicological effect	
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
CTAB (Hexadecyltrimethylammonium bro	
LD50 oral rat	465 mg/kg (OECD 401: Acute Oral Toxicity, 14 day(s), Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	2150 mg/kg body weight (Other, 24 h, Rabbit, Male / female, Experimental value, Skin)
ATE US (oral)	465 mg/kg body weight
ATE US (dermal)	2150 mg/kg body weight
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 – single exposure	: Not classified
CTAB (Hexadecyltrimethylammonium brom	ide) (57-09-0)
Specific target organ toxicity - single exposure	May cause respiratory irritation.
Specific target organ toxicity – repeated exposure	: Not classified
CTAB (Hexadecyltrimethylammonium brom	ide) (57-09-0)
Specific target organ toxicity – repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Symptoms/effects after eye contact	: Eye irritation.
<b>SECTION 12: Ecological information</b>	
12.1. Toxicity	
Ecology - general	: Very toxic to aquatic life.
CTAB (Hexadecyltrimethylammonium brom	ide) (57-09-0)
LC50 fish 1	0.2 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Semi-static system, Fresh water, Experimental value, GLP)
EC50 Daphnia 1	26 μg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Semi-static system, Fresh water, Experimental value, Locomotor effect)
ErC50 (algae)	4.11 μg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)
12.2. Persistence and degradability	
CTAB (Hexadecyltrimethylammonium brom	ide) (57-09-0)
Persistence and degradability	Readily biodegradable in water.
12.3. Bioaccumulative potential	
CTAB (Hexadecyltrimethylammonium brom	ide) (57-09-0)
Log Pow	3.18 (Estimated value, KOWWIN)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
12.4. Mobility in soil	
CTAB (Hexadecyltrimethylammonium brom	ide) (57-09-0)
Surface tension	39 mN/m (25 °C, 0.8 mmol/l, Wilhelmy plate method: surface tension)
Ecology - soil	Adsorbs into the soil.
12.5. Other adverse effects	
No additional information available	
SECTION 13: Disposal consideration	ns
13.1. Disposal methods	

Waste treatment methods

: Waste treatment methods.

### **SECTION 14: Transport information**

#### Department of Transportation (DOT)

In accordance with DOT

Not regulated

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#### **Transportation of Dangerous Goods**

#### Transport by sea

Not regulated

#### Air transport

Not regulated

#### SECTION 15: Regulatory information

15.1. US Federal regulations

### CTAB (Hexadecyltrimethylammonium bromide) (57-09-0)

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

#### **SECTION 16: Other information**

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#### Revision date

: 03/29/2018

#### Full text of H-phrases:

H302	Harmful if swallowed
H315	Causes skin irritation
H318	Causes serious eye damage
H335	May cause respiratory irritation
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life

#### 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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SECTION 1: Identification				
1.1. Identification				
Product form	: Mixture			
Product name	: Longlife Proteinase K (5n	ng/ml)		
Product code	: 073L			
Synonyms	: proteinase K / proteinase tritirachium album serine			tritirachium album serine /
BIG No	: 37946			
1.2. Recommended use and restric	ctions on use			
Use of the substance/mixture	: Chemical substance for r Enzyme	esearch		
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.GBio	osciences.com			
1.4. Emergency telephone number	r			
Emergency number	: Chemtrec 1-800-424-930	0 (USA/Canada), +1-703	<b>3-527-3887</b> (Ir	ntl)
SECTION 2: Hazard(s) identifica	ation			
2.1. Classification of the substanc	e or mixture			
GHS US classification				
Not classified				
2.2. GHS Label elements, includin	a precautionary statements			
GHS US labeling	g precationary statements			
No labeling applicable				
5				
2.3. Other hazards which do not re				
No additional information available	116)			
2.4. Unknown acute toxicity (GHS	05)			
Not applicable				
SECTION 3: Composition/Inform	nation on ingredients			
3.1. Substances				
Not applicable				
3.2. Mixtures				
Name	Common Name (Synonyms)	Product identifier	%	GHS US classification
Proteinase K, Lyophilized	proteinase K / proteinase K, Glyc, PCR-Grade SL / proteinase, tritirachium album serine /	(CAS-No.) 39450-01-6	0.05 - 0.5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334

SECTION 4: First-aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.
First-aid measures after inhalation	: Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

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iccording to Federal Register / Vol. 77, No. 58 / Monday, M	arch 26, 2012 / Rules and Regulations
First-aid measures after skin contact :	Wash immediately with lots of water. Soap may be used. Take victim to a doctor if irritation persists.
First-aid measures after eye contact	Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.
First-aid measures after ingestion	Rinse mouth with water. Do not induce vomiting. 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 effects	(acute and delayed)
Potential Adverse human health effects and symptoms	Causes skin irritation. May cause respiratory irritation. Causes serious eye irritation.
Symptoms/effects after inhalation	AFTER INHALATION OF DUST/MIST: Irritation of the respiratory tract. Irritation of the nasal mucous membranes.
Symptoms/effects after skin contact :	Tingling/irritation of the skin.
Symptoms/effects after eye contact :	Irritation of the eye tissue.
Symptoms/effects after ingestion :	No effects known.
Chronic symptoms :	Respiratory difficulties.
4.3. Immediate medical attention and spec	ial treatment, if necessary
Treat symptomatically.	
SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguishin	g 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. Specific hazards arising from the cher	nical
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.
5.3. Special protective equipment and pre-	cautions for fire-fighters
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 measu	Ires
6.1. Personal precautions, protective equi	pment and emergency procedures
6.1.1. For non-emergency personnel	
Protective equipment :	Gloves. Face-shield. Protective clothing. Dust cloud production: compressed air/oxygen apparatus. Dust cloud production: dust-tight suit.
Emergency procedures :	Mark the danger area. Prevent dust cloud formation, e.g. by wetting. No naked flames. Wash contaminated clothes.
Measures in case of dust release	In case of dust production: keep upwind. Dust production: have neighbourhood close doors and windows.
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	t and 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.

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# 6.4. Reference to other sections For further information refer to section 13.

#### **SECTION 7: Handling and storage** Precautions for safe handling 7.1. : Avoid raising dust. Keep away from naked flames/heat. In finely divided state: use spark-Precautions for safe handling /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. Remove contaminated clothing immediately. Clean contaminated clothing. Keep container tightly closed. Powdered form: no compressed air for pumping over. Hygiene measures Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Conditions for safe storage, including any incompatibilities 7.2. Storage conditions : Store in a well-ventilated place. Keep cool. Storage temperature : < 0 °C : KEEP SUBSTANCE AWAY FROM: heat sources. ignition sources. Heat-ignition Information on mixed storage : KEEP SUBSTANCE AWAY FROM: oxidizing agents. Storage area : Keep container in a well-ventilated place. To be kept quick-frozen. Meet the legal requirements. Special rules on packaging SPECIAL REQUIREMENTS: closing, correctly labelled, meet the legal requirements. Secure fragile packagings in solid containers.

#### SECTION 8: Exposure controls/personal protection

0.00006 mg/m <sup>3</sup>	
Proteinase K, Lyophilized (39450-01-6)	
USA - ACGIH - Occupational Exposure Limits	
0.00006 mg/m <sup>3</sup>	

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/Personal protective equipment

#### Hand protection:

Gloves

#### Eye protection:

Face shield. In case of dust production: protective goggles

#### Skin and body protection:

Protective clothing. In case of dust production: head/neck protection. In case of dust production: dustproof clothing

#### **Respiratory protection:**

Dust production: dust mask with filter type P2

SECTION 9: Physical and o	chemical properties	
9.1. Information on basic ph	nysical and chemical properties	
Physical state	: Liquid	
Appearance	: Solid.	
Color	: No data available	
Odor	: No data available	
Odor threshold	: No data available	
рН	: No data available	
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	-
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	: Not applicable
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
0.2 Other information	

#### Other information

VOC content	: 0%
SECTION 10: Stability and reactivity	
10.1. Reactivity	
The product is non-reactive under normal condition	ns 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 cond	litions of use.
10.4. Conditions to avoid	
None under recommended storage and handling o	conditions (see section 7).
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition products	
Hazardous decomposition products.	
SECTION 11: Toxicological informatic	on de la constante de la const
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
Specific target organ toxicity – single exposure	: Not classified
Proteinase K, Lyophilized (39450-01-6)	
Specific target organ toxicity – single exposure	May cause respiratory irritation.

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Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Potential Adverse human health effects and symptoms	: Causes skin irritation. May cause respiratory irritation. Causes serious eye irritation.
Symptoms/effects after inhalation	: AFTER INHALATION OF DUST/MIST: Irritation of the respiratory tract. Irritation of the nasal mucous membranes.
Symptoms/effects after skin contact	: Tingling/irritation of the skin.
Symptoms/effects after eye contact	: Irritation of the eye tissue.
Symptoms/effects after ingestion	: No effects known.
Chronic symptoms	: Respiratory difficulties.

CECTION 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.
Ecology - air	: Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014). Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).
Ecology - water	: Mild water pollutant (surface water). No data available on ecotoxicity.

12.2. Persistence and degradability			
Longlife Proteinase K (5mg/ml)			
Persistence and degradability Biodegradability in water: no data available.			
Proteinase K, Lyophilized (39450-01-6)			
Persistence and degradability	Biodegradability in water: no data available.		
12.3. Bioaccumulative potential			
Longlife Proteinase K (5mg/ml)			
Bioaccumulative potential No bioaccumulation data available.			
Proteinase K, Lyophilized (39450-01-6)			
Bioaccumulative potential No bioaccumulation data available.			
12.4. Mobility in soil			
Longlife Proteinase K (5mg/ml)			
Ecology - soil No (test)data on mobility of the substance available.			
Proteinase K, Lyophilized (39450-01-6)			
Ecology - soil No (test)data on mobility of the substance available.			
12.5. Other adverse effects			

No additional information available

<b>SECTION 13: Disposal consideratio</b>	ns
13.1. Disposal methods	
Waste treatment methods	: Waste treatment methods.
Product/Packaging disposal recommendations	: Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber with energy recovery. Dissolve or mix with a combustible solvent.
Additional information	: Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.
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#### SECTION 14: Transport information

#### **Department of Transportation (DOT)**

In accordance with DOT

#### Other information

: No supplementary information available.

#### **Transportation of Dangerous Goods**

#### Transport by sea

#### Air transport

#### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

#### Proteinase K, Lyophilized (39450-01-6)

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

#### **SECTION 16: Other information**

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: 05/11/2017

Full text of H-phrases:

H315	Causes skin irritation
H319	Causes serious eye irritation
H334 May cause an allergy or asthma symptoms or breathing difficulties if inhaled	
H335 May cause respiratory irritation	
NFPA health hazard	: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
NFPA fire hazard	: 1 - Materials that must be preheated before ignition can occur.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.

#### 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.



LongLife<sup>TM</sup> RNase Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 04/22/2016 Revision date: 05/11/2017 Version: 7.1

SECTION 1: Identification		
1.1. Identification		
	: Mixture	
Product name	: LongLife™ RNase	
Product code	: 079L	
1.2. Recommended use and restrictions of	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.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	kture	
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	classification	
No additional information available	outomouton	
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 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	s (acute and delayed)	
No additional information available		
4.3. Immediate medical attention and spec	rial treatment if necessary	
Treat symptomatically.	cial treatment, il necessary	
SECTION 5: Fire-fighting measures		
5.1. Suitable (and unsuitable) extinguishin		
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.	
5.2. Specific hazards arising from the che	mical	
No additional information available		
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5.3. Special protective equipment and precautions for fire-fighters				
Protection during firefighting :	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.			
<b>SECTION 6: Accidental release measu</b>	res			
6.1. Personal precautions, protective equip	oment 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, including	any incompatibilities			
	Store in a well-ventilated place. Keep cool.			
Storage temperature :	-20 °C			
SECTION 8: Exposure controls/persor	al protection			
8.1. Control parameters				
LongLife™ RNase				
No additional information available				
8.2. Appropriate engineering controls				
	Ensure good ventilation of the work station.			
Environmental exposure controls :	Avoid release to the environment.			
8.3. Individual protection measures/Person	nal 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 respiratory equipment				
SECTION 9: Physical and chemical pro	operties			
9.1. Information on basic physical and che				

9.1.	Information on basic physical and che	mical properties
Physical		: Liquid

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Color	: No data available
Odor	: No data available
Odor threshold	: No data available
pH	: 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

<b>SECTION 10: Stability and reactivity</b>	у	
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 c	onditions of use.	
10.4. Conditions to avoid		
None under recommended storage and handlin	ng conditions (see section 7).	
10.5. Incompatible materials		
No additional information available		
10.6. Hazardous decomposition products		
Hazardous decomposition products.		
<b>SECTION 11: Toxicological informa</b>	ition	
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		
<b>o</b> <i>i</i>		
Reproductive toxicity : Not classified		

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

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 addi	tional 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			

<b>SECTION 13: Disposal considerations</b>	5
13.1. Disposal methods	
Waste treatment methods	: Waste treatment methods.
SECTION 14: Transport information	
Department of Transportation (DOT) In accordance with DOT	
Other information	: No supplementary information available.
Transportation of Dangerous Goods	
Transport by sea	
Air transport	
SECTION 15: Regulatory information	
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**

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)

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: 05/19/2016 Revision date: 05/11/2017 Version: 7.1

SECTION 1: Identification	
1.1. Identification	
Product form	: Mixture
Product name	: DNA Stripping Solution
Product code	: 189D
1.2. Recommended use and restrictio	ns 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	ences.com
1.4. Emergency telephone number	
Emergency number	: Chemtrec 1-800-424-9300 (USA/Canada), +1-703-527-3887 (Intl)
SECTION 2: Hazard(s) identificatio	n
2.1. Classification of the substance of	
GHS US classification	
Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2	H315 Causes skin irritation H319 Causes serious eye irritation
Full text of H statements : see section 16	
2.2. GHS Label elements, including pr	ecautionary statements
GHS US labeling	
Hazard pictograms (GHS US)	
Signal word (GHS US)	: Warning
Hazard statements (GHS US)	: H315 - Causes skin irritation H319 - Causes serious eye irritation
Precautionary statements (GHS US)	<ul> <li>P264 - Wash hands, forearms and face thoroughly after handling.</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P302+P352 - If on skin: Wash with plenty of water</li> <li>P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing</li> <li>P321 - Specific treatment (see supplemental first aid instruction on this label)</li> <li>P332+P313 - If skin irritation occurs: Get medical advice/attention.</li> <li>P337+P313 - If eye irritation persists: Get medical advice/attention.</li> <li>P362+P364 - Take off contaminated clothing and wash it before reuse.</li> </ul>
2.3. Other hazards which do not resul	t in classification
No additional information available	
2.4. Unknown acute toxicity (GHS US)	
Not applicable	
<b>SECTION 3: Composition/Informat</b>	ion on ingredients
3.1. Substances	
Not applicable	
3.2. Mixtures	

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Name

Common Name (Synonyms) Product identifier

GHS US classification

%

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lame	Common Name (Synonyms)	Product identifier	%	GHS US classification
odium dodecyl sulphate	Al3-00356 / akyposal SDS /	(CAS-No.) 151-21-3	< 15	Acute Tox. 4 (Oral), H302
	aquarex ME / aquarex methyl /			Acute Tox. 4 (Dermal), H312
	avirol 101 / avirol 118 conc / berol			Skin Irrit. 2, H315
	452 / carsonol SLS / carsonol SLS			Eye Irrit. 2, H319
	paste B / carsonol SLS special /			
	casonol SLS pasta B / conco			
	sulfate WA / conco sulfate			
	WA1200 / conco sulfate WA-1200 /			
	conco sulfate WA1245 / conco			
	sulfate WA-1295 / conco sulfate			
	WAG / conco sulfate WAN / conco			
	sulfate WAS / conco sulfate WN /			
	cycloryl 21 / cycloryl 31 / cycloryl			
	580 / cycloryl 585N / dehydag			
	sulfate GL emulsion / dehydag			
	sulphate GL emulsion / detergent			
	66 / dodecyl alcohol,hydrogen			
	sulfate, sodium salt / dodecyl			
	sodium sulfate / dodecyl sulfate			
	sodium / dodecyl sulfate sodium			
	salt / dodecylhydrogensulfate			
	sodium salt / dreft / duponal /			
	duponal WAQE / duponol /			
	duponol C / duponol ME / duponol			
	METHYL / duponol QX / duponol			
	WA / duponol WA dry / duponol			
	WAQ / duponol WAQA / duponol			
	WAQE / duponol WAQM / EMAL 0			
	/ EMAL 10 / emersal 6400 /			
	empicol LPZ / empicol LS 30 /			
	empicol LX / emulsifier n° 104 /			
	finasol osr(sub 2) / gaedinol /			
	hexamol SLS / incronol SLS / irium			
	/ jordanol SL-300 / lanette wax S /			
	lauryl sodium sulfate / lauryl sulfate			
	sodium / lauryl sulfate sodium salt /			
	maprobix neu / maprofix 563 /			
	maprofix LK / maprofix WAC /			
	maprofix wac LA / melanol CL /			
	melanol CL 30 / monododecyl			
	sodium sulfate / monogen Y 100 /			
	montopol la paste / n-dodecyl			
	sulfate sodium / neutrazyme /			
	nikkol SLS / odoripon AL 95 / orvus			
	WA paste / P and G emulsifier 104			
	/ perklankrol ESD 60 / perlandrol L			
	/ perlankrol L / product n° 161 /			
	product n° 75 / quolac EX-UB /			
	rewopol NLS 30 / richonol A /			
	richonol AF / richonol C / SDS (=			
	sodium dodecyl sulphate) / silfopon			
	WA 1 special / silfopon WA 2 /			
	sinnopon LS 100 / sinnopon LS 95			
	/ sintapon L / sipex OP / sipex SB /			
	sipex SD / sipex SP / sipex UB /			
	sipon LS / sipon LS 100 / sipon			
	LSB / sipon PD / sipon WD / SLS			
	(= sodium lauryl sulfate) / sodium			
	dodecyl sulphate / sodium lauryl			
	sulfate / sodium lauryl sulfate,			
	powder / sodium lauryl sulphate /			
	sodium monododecyl sulfate /			
	sodium monolauryl sulfate /			
	sodium N-dodecyl sulfate / solsol			
	needles / standapol 112 conc /			
	standapol NLS 90 / standapol WA-			
	AC / standapol WAQ / standapol			
	WAQ special / standapol WAS100			
	/ steinapol NLS 90 / stepanol ME /			
	stepanol ME DRY / stepanol ME			
	DRY AW / stepanol methyl /			
	stepanol METHYL DRY AW /			
	stepanol T28 / stepanol WA /			
	stepanol WA paste / stepanol WA-			
	100 / stepanol WAC / stepanol			
	WAQ / sterling WA paste / sterling			
	WAQ-CH / sterling waq-cosmetic /			
	sulfetal L 95 / sulfopon WA3 /			
	sulfopon WAL / sulfotex WA /			
	sulfotex WALA / sulfuric acid			
8/2019	monodEdde(Eyngelissehr,USS)dium salt /			
	sulfuric acid, monododecyl ester,			
	sodium salt / swascol 1P / swascol			
	3L / swascol 4L / syntapon L /			
	syntapon L pasta / tarapon K12 /			

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#### 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 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 :	Call a poison center/doctor/physician if you feel unwell.
4.2. Most important symptoms and effects	(acute and delayed)
Symptoms/effects after skin contact :	Irritation.
Symptoms/effects after eye contact :	Eye irritation.
4.3. Immediate medical attention and speci	al treatment, if necessary
Treat symptomatically.	
SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguishing	g media
Suitable extinguishing media :	Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Specific hazards arising from the chen	
No additional information available	incai
5.3. Special protective equipment and prec	
Protection during firefighting :	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release measu	res
6.1. Personal precautions, protective equip	ment and emergency procedures
6.1.1. For non-emergency personnel	
	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 containment	and cleaning up
	Take up liquid spill into absorbent material.
	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, including	any incompatibilities
Storage conditions :	Store in a well-ventilated place. Keep cool.
SECTION 8: Exposure controls/person	al protection
8.1. Control parameters	
DNA Stripping Solution	
No additional information available	

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sodiu	um dodecyl sulphate (151-21-3)
No ac	dditional 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.

#### 8.3. Individual protection measures/Personal 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 respiratory equipment

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and	I chemical properties	
Physical state	: Liquid	
Color	: Colourless	
Odor	: Odourless	
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: 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.

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according to Federal Register / Vol. 77, No. 58 / Monday,	March 26, 2012 / Rules and Regulations
10.3. Possibility of hazardous reactions	
No dangerous reactions known under normal con	iditions 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 informati	on
11.1. Information on toxicological effects	
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
,	
sodium dodecyl sulphate (151-21-3)	1200 mg/kg hady weight (OECD 404; Aguta Oral Taviaity, Bat Mala / famala, Evagimental
LD50 oral rat	1200 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rat	< 2000 mg/kg (Rat; Literature study)
LD50 dermal rabbit	> 2000 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Read-across, Dermal, 14 day(s))
ATE US (oral)	1200 mg/kg body weight
ATE US (dermal)	1100 mg/kg body weight
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
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
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Symptoms/effects after skin contact	: Irritation.
Symptoms/effects after eye contact	: Eye irritation.
· · ·	

#### **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.

sodium dodecyl sulphate (151-21-3)	
Persistence and degradability	Readily biodegradable in water.
2.3. Bioaccumulative potential	
sodium dodecyl sulphate (151-21-3)	
BCF fish 1	3.9 - 5.3 (72 h, Cyprinus carpio)
BCF fish 2	7.15 (Pisces, Chronic)
Log Pow	<= -2.03 (Calculated, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C)
Bioaccumulative potential	Not bioaccumulative.
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0.0252 N/m (23 °C, 1 g/l, EU Method A.5: Surface tension)	
1.545 (log Koc, SRC PCKOCWIN v2.0, Experimental value)	
Highly mobile in soil.	
	1.545 (log Koc, SRC PCKOCWIN v2.0, Experimental value)

#### 12.5. Other adverse effects

No additional information available

SECTION 13: Disposal consideration	IS
13.1. Disposal methods	Wests to stored with a de
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	
sodium dodecyl sulphate (151-21-3)	
Not listed on the United States TSCA (Toxic Su	ibstances Control Act) inventory
15.2. International regulations	
CANADA	
EU-Regulations	
National regulations No additional information available	
15.3. US State regulations	

#### SECTION 16: Other information

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#### Full text of H-phrases:

H302	Harmful if swallowed
H312	Harmful in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation

#### 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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-	
SECTION 1: Identification	
1.1. Identification	
Product form	: Mixture
Product name	Precipitation Solution
Product code	: 344P
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.GBiosciences	s.com
1.4. Emergency telephone 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	ture
GHS US classification	
Not classified	
2.2. GHS Label elements, including precat	utionary statements
GHS US labeling	
No labeling applicable	
2.3. Other hazards which do not result in a	classification
No additional information available	
2.4. Unknown acute toxicity (GHS US)	
Not applicable	
<b>SECTION 3: Composition/Information</b>	on ingredients
3.1. Substances	
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	
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/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 spec	sial trastment if necessary
Treat symptomatically.	Jar deallient, ir necessary
SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguishin	
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Specific hazards arising from the che	mical
No additional information available	
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5.3.	3. Special protective equipment and precautions for fire-fighters		
Protectio	n 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	ires	
6.1.	Personal precautions, protective equi	pment and emergency procedures	
6.1.1.	For non-emergency personnel		
Emerger		Ventilate spillage area.	
6.1.2.	For emergency responders		
Protectiv	e 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 rel	ease to the environment.		
6.3.	Methods and material for containment	t and cleaning up	
Methods	for cleaning up	Take up liquid spill into absorbent material.	
Other inf	ormation	Dispose of materials or solid residues at an authorized site.	
6.4.	Reference to other sections		
For furth	er information refer to section 13.		
SECTI	ON 7: Handling and storage		
7.1.	Precautions for safe handling		
Precautio	ons 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.	
Slorage	contaitionio		
SECTI	ON 8: Exposure controls/perso		
<b>SECTI</b> 8.1.	ON 8: Exposure controls/persor Control parameters		
SECTION 8.1.	ON 8: Exposure controls/person Control parameters itation Solution		
SECTION 8.1.	ON 8: Exposure controls/persor Control parameters		
SECTION 8.1. Precipion No add	ON 8: Exposure controls/persor Control parameters itation Solution litional information available		
SECTION 8.1. Precipion No add 8.2.	ON 8: Exposure controls/person Control parameters itation Solution litional information available Appropriate engineering controls	nal protection	
SECTION 8.1. Precipion No add 8.2. Appropria	ON 8: Exposure controls/persor Control parameters itation Solution litional information available Appropriate engineering controls ate engineering controls	nal protection : Ensure good ventilation of the work station.	
SECTION 8.1. Precipion No add 8.2. Appropria	ON 8: Exposure controls/persor Control parameters itation Solution litional information available Appropriate engineering controls ate engineering controls mental exposure controls	Ensure good ventilation of the work station. Avoid release to the environment.	
SECTION 8.1. Precipion No add 8.2. Appropria	ON 8: Exposure controls/persor Control parameters itation Solution litional information available Appropriate engineering controls ate engineering controls	Ensure good ventilation of the work station. Avoid release to the environment.	
SECTION 8.1. Precipi No add 8.2. Appropria Environn 8.3.	ON 8: Exposure controls/persor Control parameters itation Solution litional information available Appropriate engineering controls ate engineering controls mental exposure controls	Ensure good ventilation of the work station. Avoid release to the environment.	
SECTION 8.1. Precipion No add 8.2. Appropria Environn 8.3. Hand p	ON 8: Exposure controls/persor Control parameters itation Solution itional information available Appropriate engineering controls ate engineering controls nental exposure controls inental exposure controls	Ensure good ventilation of the work station. Avoid release to the environment.	
SECTION 8.1. Precipion No add 8.2. Appropria Environn 8.3. Hand p Protect	ON 8: Exposure controls/persor Control parameters itation Solution itional information available Appropriate engineering controls ate engineering controls inental exposure controls Individual protection measures/Perso protection: ive gloves	Ensure good ventilation of the work station. Avoid release to the environment.	
SECTION 8.1. Precipion No add 8.2. Appropriation Environm 8.3. Hand p Protect Eye pro	ON 8: Exposure controls/persor Control parameters itation Solution itional information available Appropriate engineering controls ate engineering controls ate engineering controls inental exposure controls Individual protection measures/Perso protection: ive gloves otection:	Ensure good ventilation of the work station. Avoid release to the environment.	
SECTION 8.1. Precipion No add 8.2. Appropria Environn 8.3. Hand p Protect Eye pro Safety	ON 8: Exposure controls/persor Control parameters itation Solution litional information available Appropriate engineering controls ate engineering controls ate engineering controls inental exposure controls Individual protection measures/Perso protection: ive gloves otection: glasses	Ensure good ventilation of the work station. Avoid release to the environment.	
SECTION 8.1. Precipion No add 8.2. Appropriation Environn 8.3. Hand p Protect Eye pro Safety Skin an	ON 8: Exposure controls/persor Control parameters itation Solution itional information available Appropriate engineering controls ate engineering controls ate engineering controls inental exposure controls Individual protection measures/Perso protection: itive gloves otection: glasses ind body protection:	Ensure good ventilation of the work station. Avoid release to the environment.	
SECTION 8.1. Precipi No add 8.2. Appropria Environn 8.3. Hand p Protect Eye pro Safety Skin an Wear s	ON 8: Exposure controls/persor Control parameters itation Solution litional information available Appropriate engineering controls ate engineering controls ate engineering controls inental exposure controls Individual protection measures/Perso protection: ive gloves otection: glasses ind body protection: uitable protective clothing	Ensure good ventilation of the work station. Avoid release to the environment.	
SECTION 8.1. Precipi No add 8.2. Appropria Environn 8.3. Hand p Protect Eye pro Safety Skin an Wear s	ON 8: Exposure controls/persor Control parameters itation Solution itional information available Appropriate engineering controls ate engineering controls ate engineering controls inental exposure controls Individual protection measures/Perso protection: itive gloves otection: glasses ind body protection:	Ensure good ventilation of the work station. Avoid release to the environment.	
SECTION 8.1. Precipi No add 8.2. Appropria Environn 8.3. Hand p Protect Eye pro Safety Skin an Wear s Respire	ON 8: Exposure controls/persor Control parameters itation Solution litional information available Appropriate engineering controls ate engineering controls ate engineering controls inental exposure controls Individual protection measures/Perso protection: ive gloves otection: glasses ind body protection: uitable protective clothing	nal protection Ensure good ventilation of the work station. Avoid release to the environment. nal protective equipment	
SECTION 8.1. Precipi No add 8.2. Appropria Environn 8.3. Hand p Protect Eye pro Safety Skin an Wear s Respir In case	ON 8: Exposure controls/persor Control parameters itation Solution itional information available Appropriate engineering controls ate engineering controls ate engineering controls intental exposure controls Individual protection measures/Perso protection: ive gloves otection: glasses and body protection: uitable protective clothing atory protection:	nal protection  Ensure good ventilation of the work station.  Avoid release to the environment.  nal protective equipment  espiratory equipment	
SECTION 8.1. Precipi No add 8.2. Appropria Environn 8.3. Hand p Protect Eye pro Safety Skin an Wear s Respir In case	ON 8: Exposure controls/persor Control parameters itation Solution itional information available Appropriate engineering controls ate engineering controls ate engineering controls inental exposure controls Individual protection measures/Perso protection: itive gloves otection: glasses and body protection: uitable protective clothing atory protection: e of insufficient ventilation, wear suitable re	nal protection  E Ensure good ventilation of the work station.  Avoid release to the environment.  nal protective equipment  espiratory equipment  operties	
SECTION 8.1. Precipi No add 8.2. Appropria Environn 8.3. Hand p Protect Eye pro Safety Safety Skin an Wear s Respir In case	ON 8: Exposure controls/persor Control parameters itation Solution litional information available Appropriate engineering controls ate engineering controls ate engineering controls inental exposure controls individual protection measures/Perso protection: itive gloves otection: glasses and body protection: uitable protective clothing atory protection: e of insufficient ventilation, wear suitable re ON 9: Physical and chemical pr Information on basic physical and chemical pr	nal protection  E Ensure good ventilation of the work station.  Avoid release to the environment.  nal protective equipment  espiratory equipment  operties	

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Odor	: Odourless
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

<b>SECTION 10: Stability and reactivit</b>	у			
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 c	onditions of use.			
10.4. Conditions to avoid				
None under recommended storage and handlir	ng conditions (see section 7).			
10.5. Incompatible materials				
No additional information available				
10.6. Hazardous decomposition products				
Hazardous decomposition products.				
<b>SECTION 11: Toxicological informa</b>	ition			
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 additional information available		
12.3.	Bioaccumulative potential	
No addi	No additional information available	
12.4.	Mobility in soil	
No addi	tional information available	
12.5.	Other adverse effects	

No additional information available

SECTION 13: Disposal consideration	ns
13.1. Disposal methods	
Waste treatment methods	: Waste treatment methods.
<b>SECTION 14: Transport information</b>	
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	n
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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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.