

# SAFETY DATA SHEET



SureVector E. coli C-terminal Tag kit, 5 rxn, Part Number G7518E

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

<b>Product name</b>	: SureVector E. coli C-terminal Tag kit, 5 rxn, Part Number G7518E
<b>Part No. (Kit)</b>	: G7518E
<b>Part No.</b>	: 5X SureSolution 5190-8625 SureVector AmpR 5190-8807 Selectable Marker SureVector pUC Origin 5190-8810 SureVector XP1 Linker 5190-8811 SureVector LacI 5190-8812 Repressor SureVector T7-HIS6 E. coli Promoter 5190-8813 SureVector T7 E. coli Promoter 5190-8818 SureVector CBP Expression Tag (C-Term) 5190-8827 SureVector SBP Expression Tag (C-Term) 5190-8828 SureVector Thioredoxin Expression Tag (C-Term) 5190-8829  SureVector LacZ E. coli Control (C-term) 5190-7819 SureVector Enzyme Mix 5190-8621 10X SureVector Buffer 5190-8622 dNTP Mix 200518-56 Dpnl 5190-8624

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	
Analytical reagent.	
5X SureSolution	0.1 ml (15 reactions)
SureVector AmpR Selectable Marker	0.01 ml (5 reactions)
SureVector pUC Origin	0.01 ml (5 reactions)
SureVector XP1 Linker	0.01 ml (5 reactions)
SureVector LacI Repressor	0.01 ml (5 reactions)
SureVector T7-HIS6 E. coli Promoter	0.01 ml (5 reactions)
SureVector T7 E. coli Promoter	0.01 ml (5 reactions)
SureVector CBP Expression Tag (C-Term)	0.01 ml (5 reactions)
SureVector SBP Expression Tag (C-Term)	0.01 ml (5 reactions)
SureVector Thioredoxin Expression Tag (C-Term)	0.01 ml (5 reactions)
SureVector LacZ E. coli Control (C-term)	0.01 ml (5 reactions)
SureVector Enzyme Mix	0.015 ml (15 reactions)
10X SureVector Buffer	0.03 ml (15 reactions)
dNTP Mix	0.03 ml
Dpnl	0.015 ml (15 reactions)

### 1.3 Details of the supplier of the safety data sheet

Agilent Technologies Manufacturing GmbH & Co. KG  
Hewlett-Packard-Str. 8  
76337 Waldbronn  
Germany  
0800 603 1000

SureVector E. coli C-terminal Tag kit, 5 rxn, Part Number G7518E

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

e-mail address of person responsible for this SDS : pdl-msds\_author@agilent.com

### 1.4 Emergency telephone number

Emergency telephone number (with hours of operation) : CHEMTREC®: +(44)-870-8200418

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

<b>Product definition</b>	: 5X SureSolution	Mono-constituent substance
	SureVector AmpR	Mixture
	Selectable Marker	
	SureVector pUC Origin	Mixture
	SureVector XP1 Linker	Mixture
	SureVector LacI	Mixture
	Repressor	
	SureVector T7-HIS6 E. coli Promoter	Mixture
	SureVector T7 E. coli Promoter	Mixture
	SureVector CBP	Mixture
	Expression Tag (C-Term)	
	SureVector SBP	Mixture
	Expression Tag (C-Term)	
	SureVector Thioredoxin	Mixture
	Expression Tag (C-Term)	
	SureVector LacZ E. coli Control (C-term)	Mixture
	SureVector Enzyme Mix	Mixture
	10X SureVector Buffer	Mixture
	dNTP Mix	Mixture
	DpnI	Mixture

### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

#### 10X SureVector Buffer

H319 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

<b>Ingredients of unknown toxicity</b>	: SureVector Enzyme Mix	Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 30 - 60%
	10X SureVector Buffer	Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10%
		Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 1 - 10%
		Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 1 - 10%
	dNTP Mix	Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10%
	Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 1 - 10%	
	Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 1 - 10%	
DpnI	Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 30 - 60%	

**SureVector E. coli C-terminal Tag kit, 5 rxn, Part Number G7518E**

**SECTION 2: Hazards identification**

<b>Ingredients of unknown ecotoxicity</b>	: 10X SureVector Buffer dNTP Mix	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 3.2% Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 5.7%
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See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

**2.2 Label elements**

**Hazard pictograms** : 10X SureVector Buffer



<b>Signal word</b>	: 5X SureSolution SureVector AmpR Selectable Marker SureVector pUC Origin SureVector XP1 Linker SureVector LacI Repressor SureVector T7-HIS6 E. coli Promoter SureVector T7 E. coli Promoter SureVector CBP Expression Tag (C-Term) SureVector SBP Expression Tag (C-Term) SureVector Thioredoxin Expression Tag (C-Term)  SureVector LacZ E. coli Control (C-term) SureVector Enzyme Mix 10X SureVector Buffer dNTP Mix DpnI	No signal word. No signal word.  No signal word. No signal word. No signal word.  No signal word. No signal word. No signal word. No signal word. No signal word. No signal word. No signal word. No signal word. No signal word.  No signal word. No signal word. Warning No signal word. No signal word.
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<b>Hazard statements</b>	: 5X SureSolution SureVector AmpR Selectable Marker SureVector pUC Origin SureVector XP1 Linker SureVector LacI Repressor SureVector T7-HIS6 E. coli Promoter SureVector T7 E. coli Promoter SureVector CBP Expression Tag (C-Term) SureVector SBP Expression Tag (C-Term) SureVector Thioredoxin Expression Tag (C-Term)  SureVector LacZ E. coli Control (C-term) SureVector Enzyme Mix 10X SureVector Buffer dNTP Mix	No known significant effects or critical hazards. No known significant effects or critical hazards.  No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.  No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.  No known significant effects or critical hazards. No known significant effects or critical hazards. H319 - Causes serious eye irritation. No known significant effects or critical hazards.
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**SureVector E. coli C-terminal Tag kit, 5 rxn, Part Number G7518E**

## SECTION 2: Hazards identification

Dpnl No known significant effects or critical hazards.

### Precautionary statements

#### **Prevention**

: 5X SureSolution	Not applicable.
SureVector AmpR	Not applicable.
Selectable Marker	
SureVector pUC Origin	Not applicable.
SureVector XP1 Linker	Not applicable.
SureVector LacI	Not applicable.
Repressor	
SureVector T7-HIS6 E. coli Promoter	Not applicable.
SureVector T7 E. coli Promoter	Not applicable.
SureVector CBP	Not applicable.
Expression Tag (C-Term)	
SureVector SBP	Not applicable.
Expression Tag (C-Term)	
SureVector Thioredoxin	Not applicable.
Expression Tag (C-Term)	
SureVector LacZ E. coli Control (C-term)	Not applicable.
SureVector Enzyme Mix	Not applicable.
10X SureVector Buffer	P280 - Wear eye or face protection. P264 - Wash hands thoroughly after handling.
dNTP Mix	Not applicable.
Dpnl	Not applicable.

#### **Response**

: 5X SureSolution	Not applicable.
SureVector AmpR	Not applicable.
Selectable Marker	
SureVector pUC Origin	Not applicable.
SureVector XP1 Linker	Not applicable.
SureVector LacI	Not applicable.
Repressor	
SureVector T7-HIS6 E. coli Promoter	Not applicable.
SureVector T7 E. coli Promoter	Not applicable.
SureVector CBP	Not applicable.
Expression Tag (C-Term)	
SureVector SBP	Not applicable.
Expression Tag (C-Term)	
SureVector Thioredoxin	Not applicable.
Expression Tag (C-Term)	
SureVector LacZ E. coli Control (C-term)	Not applicable.
SureVector Enzyme Mix	Not applicable.
10X SureVector Buffer	P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
dNTP Mix	Not applicable.
Dpnl	Not applicable.

#### **Storage**

: 5X SureSolution	Not applicable.
SureVector AmpR	Not applicable.
Selectable Marker	
SureVector pUC Origin	Not applicable.
SureVector XP1 Linker	Not applicable.
SureVector LacI	Not applicable.
Repressor	
SureVector T7-HIS6 E.	Not applicable.

SureVector E. coli C-terminal Tag kit, 5 rxn, Part Number G7518E

## SECTION 2: Hazards identification

	coli Promoter	
	SureVector T7 E. coli Promoter	Not applicable.
	SureVector CBP Expression Tag (C-Term)	Not applicable.
	SureVector SBP Expression Tag (C-Term)	Not applicable.
	SureVector Thioredoxin Expression Tag (C-Term)	Not applicable.
	SureVector LacZ E. coli Control (C-term)	Not applicable.
	SureVector Enzyme Mix	Not applicable.
	10X SureVector Buffer	Not applicable.
	dNTP Mix	Not applicable.
	Dpnl	Not applicable.
<b>Disposal</b>	: 5X SureSolution	Not applicable.
	SureVector AmpR Selectable Marker	Not applicable.
	SureVector pUC Origin	Not applicable.
	SureVector XP1 Linker	Not applicable.
	SureVector LacI Repressor	Not applicable.
	SureVector T7-HIS6 E. coli Promoter	Not applicable.
	SureVector T7 E. coli Promoter	Not applicable.
	SureVector CBP Expression Tag (C-Term)	Not applicable.
	SureVector SBP Expression Tag (C-Term)	Not applicable.
	SureVector Thioredoxin Expression Tag (C-Term)	Not applicable.
	SureVector LacZ E. coli Control (C-term)	Not applicable.
	SureVector Enzyme Mix	Not applicable.
	10X SureVector Buffer	Not applicable.
	dNTP Mix	Not applicable.
	Dpnl	Not applicable.
<b>Hazardous ingredients</b>	: 10X SureVector Buffer	Not applicable.
	Dpnl	Not applicable.
<b>Supplemental label elements</b>	: 5X SureSolution	Not applicable.
	SureVector AmpR Selectable Marker	Not applicable.
	SureVector pUC Origin	Not applicable.
	SureVector XP1 Linker	Not applicable.
	SureVector LacI Repressor	Not applicable.
	SureVector T7-HIS6 E. coli Promoter	Not applicable.
	SureVector T7 E. coli Promoter	Not applicable.
	SureVector CBP Expression Tag (C-Term)	Not applicable.
	SureVector SBP Expression Tag (C-Term)	Not applicable.
	SureVector Thioredoxin Expression Tag (C-Term)	Not applicable.
	SureVector LacZ E. coli	Not applicable.

**SureVector E. coli C-terminal Tag kit, 5 rxn, Part Number G7518E**

## SECTION 2: Hazards identification

	Control (C-term)	
	SureVector Enzyme Mix	Not applicable.
	10X SureVector Buffer	Not applicable.
	dNTP Mix	Not applicable.
	DpnI	Safety data sheet available on request.
<b>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</b>	: 5X SureSolution	Not applicable.
	SureVector AmpR	Not applicable.
	Selectable Marker	
	SureVector pUC Origin	Not applicable.
	SureVector XP1 Linker	Not applicable.
	SureVector LacI	Not applicable.
	Repressor	
	SureVector T7-HIS6 E. coli Promoter	Not applicable.
	SureVector T7 E. coli Promoter	Not applicable.
	SureVector CBP	Not applicable.
	Expression Tag (C-Term)	
	SureVector SBP	Not applicable.
	Expression Tag (C-Term)	
	SureVector Thioredoxin	Not applicable.
	Expression Tag (C-Term)	
		SureVector LacZ E. coli Control (C-term)
	SureVector Enzyme Mix	Not applicable.
	10X SureVector Buffer	Not applicable.
	dNTP Mix	Not applicable.
	DpnI	Not applicable.

### Special packaging requirements

<b>Tactile warning of danger</b>	: 5X SureSolution	Not applicable.
	SureVector AmpR	Not applicable.
	Selectable Marker	
	SureVector pUC Origin	Not applicable.
	SureVector XP1 Linker	Not applicable.
	SureVector LacI	Not applicable.
	Repressor	
	SureVector T7-HIS6 E. coli Promoter	Not applicable.
	SureVector T7 E. coli Promoter	Not applicable.
	SureVector CBP	Not applicable.
	Expression Tag (C-Term)	
	SureVector SBP	Not applicable.
	Expression Tag (C-Term)	
	SureVector Thioredoxin	Not applicable.
	Expression Tag (C-Term)	
		SureVector LacZ E. coli Control (C-term)
	SureVector Enzyme Mix	Not applicable.
	10X SureVector Buffer	Not applicable.
	dNTP Mix	Not applicable.
	DpnI	Not applicable.

### 2.3 Other hazards

**SureVector E. coli C-terminal Tag kit, 5 rxn, Part Number G7518E**

## SECTION 2: Hazards identification

<b>Other hazards which do not result in classification</b>	<b>5X SureSolution</b>	None known.
	<b>SureVector AmpR</b>	None known.
	<b>Selectable Marker</b>	
	<b>SureVector pUC Origin</b>	None known.
	<b>SureVector XP1 Linker</b>	None known.
	<b>SureVector LacI</b>	None known.
	<b>Repressor</b>	
	<b>SureVector T7-HIS6 E. coli Promoter</b>	None known.
	<b>SureVector T7 E. coli Promoter</b>	None known.
	<b>SureVector CBP</b>	None known.
	<b>Expression Tag (C-Term)</b>	
	<b>SureVector SBP</b>	None known.
	<b>Expression Tag (C-Term)</b>	
	<b>SureVector Thioredoxin</b>	None known.
	<b>Expression Tag (C-Term)</b>	
	<b>SureVector LacZ E. coli Control (C-term)</b>	None known.
	<b>SureVector Enzyme Mix</b>	None known.
<b>10X SureVector Buffer</b>	None known.	
<b>dNTP Mix</b>	None known.	
<b>DpnI</b>	None known.	

## SECTION 3: Composition/information on ingredients

<b>3.1 Substances</b>	<b>5X SureSolution</b>	Mono-constituent substance
	<b>SureVector AmpR Selectable Marker</b>	Mixture
	<b>SureVector pUC Origin</b>	Mixture
	<b>SureVector XP1 Linker</b>	Mixture
	<b>SureVector LacI Repressor</b>	Mixture
	<b>SureVector T7-HIS6 E. coli Promoter</b>	Mixture
	<b>SureVector T7 E. coli Promoter</b>	Mixture
	<b>SureVector CBP Expression Tag (C-Term)</b>	Mixture
	<b>SureVector SBP Expression Tag (C-Term)</b>	Mixture
	<b>SureVector Thioredoxin Expression Tag (C-Term)</b>	Mixture
	<b>SureVector LacZ E. coli Control (C-term)</b>	Mixture
	<b>SureVector Enzyme Mix</b>	Mixture
	<b>10X SureVector Buffer</b>	Mixture
	<b>dNTP Mix</b>	Mixture
	<b>DpnI</b>	Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
<b>5X SureSolution</b> Dimethyl sulfoxide	EC: 200-664-3 CAS: 67-68-5	100	Not classified.	[A]
<b>SureVector Enzyme Mix</b> Glycerol	EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	[2]
Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-	CAS: 9036-19-5	≤0.3	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411	[1] [5]

**Date of issue/Date of revision** : 31/05/2017

**7/56**

**SureVector E. coli C-terminal Tag kit, 5 rxn, Part Number G7518E**

**SECTION 3: Composition/information on ingredients**

<b>10X SureVector Buffer</b> 2-Amino-2-(hydroxymethyl) propane-1,3-diol hydrochloride	EC: 214-684-5 CAS: 1185-53-1	≤5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	[1]
Polyoxyethylene octyl phenyl ether	CAS: 9002-93-1	≤2.3	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411	[1] [5]
<b>Dpnl</b> Glycerol	EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	[2]
Sodium chloride	EC: 231-598-3 CAS: 7647-14-5	≤3	Eye Irrit. 2, H319	[1]
			<b>See Section 16 for the full text of the H statements declared above.</b>	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [A] Constituent
- [B] Impurity
- [C] Stabilising additive

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

<b>Eye contact</b>	: 5X SureSolution	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	SureVector AmpR Selectable Marker	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	SureVector pUC Origin	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	SureVector XP1 Linker	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	SureVector LacI Repressor	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	SureVector T7-HIS6 E. coli Promoter	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	SureVector T7 E. coli Promoter	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	SureVector CBP Expression Tag (C-Term)	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	SureVector SBP Expression Tag (C-Term)	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.



SureVector *E. coli* C-terminal Tag kit, 5 rxn, Part Number G7518E

## SECTION 4: First aid measures

	SureVector Thioredoxin Expression Tag (C-Term)	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	SureVector LacZ <i>E. coli</i> Control (C-term)	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	SureVector Enzyme Mix	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	10X SureVector Buffer	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
	dNTP Mix	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	DpnI	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
<b>Inhalation</b>	: 5X SureSolution	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureVector AmpR Selectable Marker	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureVector pUC Origin	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureVector XP1 Linker	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureVector LacI Repressor	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureVector T7-HIS6 <i>E. coli</i> Promoter	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureVector T7 <i>E. coli</i> Promoter	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureVector CBP Expression Tag (C-Term)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureVector SBP Expression Tag (C-Term)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureVector Thioredoxin Expression Tag (C-Term)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureVector LacZ <i>E. coli</i> Control (C-term)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureVector Enzyme Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	10X SureVector Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in

SureVector E. coli C-terminal Tag kit, 5 rxn, Part Number G7518E

## SECTION 4: First aid measures

		recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	dNTP Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	DpnI	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
<b>Skin contact</b>	: 5X SureSolution	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureVector AmpR Selectable Marker	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureVector pUC Origin	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureVector XP1 Linker	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureVector LacI Repressor	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureVector T7-HIS6 E. coli Promoter	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureVector T7 E. coli Promoter	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureVector CBP Expression Tag (C-Term)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureVector SBP Expression Tag (C-Term)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureVector Thioredoxin Expression Tag (C-Term)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureVector LacZ E. coli Control (C-term)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureVector Enzyme Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	10X SureVector Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	dNTP Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	DpnI	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

SureVector E. coli C-terminal Tag kit, 5 rxn, Part Number G7518E

## SECTION 4: First aid measures

<b>Ingestion</b>	: 5X SureSolution	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	SureVector AmpR Selectable Marker	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	SureVector pUC Origin	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	SureVector XP1 Linker	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	SureVector LacI Repressor	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	SureVector T7-HIS6 E. coli Promoter	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	SureVector T7 E. coli Promoter	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	SureVector CBP Expression Tag (C-Term)	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	SureVector SBP Expression Tag (C-Term)	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	SureVector Thioredoxin Expression Tag (C-Term)	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	SureVector LacZ E. coli Control (C-term)	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If

SureVector *E. coli* C-terminal Tag kit, 5 rxn, Part Number G7518E

## SECTION 4: First aid measures

		material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	SureVector Enzyme Mix	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	10X SureVector Buffer	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	dNTP Mix	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	DpnI	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
<b>Protection of first-aiders</b>	: 5X SureSolution	No action shall be taken involving any personal risk or without suitable training.
	SureVector AmpR Selectable Marker	No action shall be taken involving any personal risk or without suitable training.
	SureVector pUC Origin	No action shall be taken involving any personal risk or without suitable training.
	SureVector XP1 Linker	No action shall be taken involving any personal risk or without suitable training.
	SureVector LacI Repressor	No action shall be taken involving any personal risk or without suitable training.
	SureVector T7-HIS6 <i>E. coli</i> Promoter	No action shall be taken involving any personal risk or without suitable training.
	SureVector T7 <i>E. coli</i> Promoter	No action shall be taken involving any personal risk or without suitable training.
	SureVector CBP Expression Tag (C-Term)	No action shall be taken involving any personal risk or without suitable training.
	SureVector SBP Expression Tag (C-Term)	No action shall be taken involving any personal risk or without suitable training.
	SureVector Thioredoxin Expression Tag (C-Term)	No action shall be taken involving any personal risk or without suitable training.
	SureVector LacZ <i>E. coli</i> Control (C-term)	No action shall be taken involving any personal risk or without suitable training.
	SureVector Enzyme Mix	No action shall be taken involving any personal risk or without suitable training.
	10X SureVector Buffer	No action shall be taken involving any personal risk or

SureVector *E. coli* C-terminal Tag kit, 5 rxn, Part Number G7518E

## SECTION 4: First aid measures

	without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
dNTP Mix	No action shall be taken involving any personal risk or without suitable training.
DpnI	No action shall be taken involving any personal risk or without suitable training.

### 4.2 Most important symptoms and effects, both acute and delayed

#### Potential acute health effects

<b>Eye contact</b>	: 5X SureSolution	No known significant effects or critical hazards.
	SureVector AmpR Selectable Marker	No known significant effects or critical hazards.
	SureVector pUC Origin	No known significant effects or critical hazards.
	SureVector XP1 Linker	No known significant effects or critical hazards.
	SureVector LacI Repressor	No known significant effects or critical hazards.
	SureVector T7-HIS6 <i>E. coli</i> Promoter	No known significant effects or critical hazards.
	SureVector T7 <i>E. coli</i> Promoter	No known significant effects or critical hazards.
	SureVector CBP Expression Tag (C-Term)	No known significant effects or critical hazards.
	SureVector SBP Expression Tag (C-Term)	No known significant effects or critical hazards.
	SureVector Thioredoxin Expression Tag (C-Term)	No known significant effects or critical hazards.
	SureVector LacZ <i>E. coli</i> Control (C-term)	No known significant effects or critical hazards.
	SureVector Enzyme Mix	No known significant effects or critical hazards.
	10X SureVector Buffer	Causes serious eye irritation.
	dNTP Mix	No known significant effects or critical hazards.
	DpnI	No known significant effects or critical hazards.
<b>Inhalation</b>	: 5X SureSolution	No known significant effects or critical hazards.
	SureVector AmpR Selectable Marker	No known significant effects or critical hazards.
	SureVector pUC Origin	No known significant effects or critical hazards.
	SureVector XP1 Linker	No known significant effects or critical hazards.
	SureVector LacI Repressor	No known significant effects or critical hazards.
	SureVector T7-HIS6 <i>E. coli</i> Promoter	No known significant effects or critical hazards.
	SureVector T7 <i>E. coli</i> Promoter	No known significant effects or critical hazards.
	SureVector CBP Expression Tag (C-Term)	No known significant effects or critical hazards.
	SureVector SBP Expression Tag (C-Term)	No known significant effects or critical hazards.
	SureVector Thioredoxin Expression Tag (C-Term)	No known significant effects or critical hazards.
	SureVector LacZ <i>E. coli</i> Control (C-term)	No known significant effects or critical hazards.
	SureVector Enzyme Mix	No known significant effects or critical hazards.
	10X SureVector Buffer	No known significant effects or critical hazards.
	dNTP Mix	No known significant effects or critical hazards.
DpnI	No known significant effects or critical hazards.	

**SureVector E. coli C-terminal Tag kit, 5 rxn, Part Number G7518E**

## SECTION 4: First aid measures

<b>Skin contact</b>	:	5X SureSolution	No known significant effects or critical hazards.
		SureVector AmpR	No known significant effects or critical hazards.
		Selectable Marker	
		SureVector pUC Origin	No known significant effects or critical hazards.
		SureVector XP1 Linker	No known significant effects or critical hazards.
		SureVector LacI	No known significant effects or critical hazards.
		Repressor	
		SureVector T7-HIS6 E. coli Promoter	No known significant effects or critical hazards.
		SureVector T7 E. coli Promoter	No known significant effects or critical hazards.
		SureVector CBP	No known significant effects or critical hazards.
		Expression Tag (C-Term)	
		SureVector SBP	No known significant effects or critical hazards.
		Expression Tag (C-Term)	
		SureVector Thioredoxin	No known significant effects or critical hazards.
		Expression Tag (C-Term)	
		SureVector LacZ E. coli Control (C-term)	No known significant effects or critical hazards.
		SureVector Enzyme Mix	No known significant effects or critical hazards.
		10X SureVector Buffer	No known significant effects or critical hazards.
		dNTP Mix	No known significant effects or critical hazards.
		DpnI	No known significant effects or critical hazards.
<b>Ingestion</b>	:	5X SureSolution	No known significant effects or critical hazards.
		SureVector AmpR	No known significant effects or critical hazards.
		Selectable Marker	
		SureVector pUC Origin	No known significant effects or critical hazards.
		SureVector XP1 Linker	No known significant effects or critical hazards.
		SureVector LacI	No known significant effects or critical hazards.
		Repressor	
		SureVector T7-HIS6 E. coli Promoter	No known significant effects or critical hazards.
		SureVector T7 E. coli Promoter	No known significant effects or critical hazards.
		SureVector CBP	No known significant effects or critical hazards.
		Expression Tag (C-Term)	
		SureVector SBP	No known significant effects or critical hazards.
		Expression Tag (C-Term)	
		SureVector Thioredoxin	No known significant effects or critical hazards.
		Expression Tag (C-Term)	
		SureVector LacZ E. coli Control (C-term)	No known significant effects or critical hazards.
		SureVector Enzyme Mix	No known significant effects or critical hazards.
		10X SureVector Buffer	No known significant effects or critical hazards.
		dNTP Mix	No known significant effects or critical hazards.
		DpnI	No known significant effects or critical hazards.

### Over-exposure signs/symptoms

<b>Eye contact</b>	:	5X SureSolution	No specific data.
		SureVector AmpR	No specific data.
		Selectable Marker	
		SureVector pUC Origin	No specific data.
		SureVector XP1 Linker	No specific data.
		SureVector LacI	No specific data.
		Repressor	
		SureVector T7-HIS6 E. coli Promoter	No specific data.
		SureVector T7 E. coli Promoter	No specific data.
		SureVector CBP	No specific data.

**SureVector E. coli C-terminal Tag kit, 5 rxn, Part Number G7518E**

**SECTION 4: First aid measures**

	Expression Tag (C-Term)	
	SureVector SBP	No specific data.
	Expression Tag (C-Term)	
	SureVector Thioredoxin	No specific data.
	Expression Tag (C-Term)	
	SureVector LacZ E. coli	No specific data.
	Control (C-term)	
	SureVector Enzyme Mix	No specific data.
	10X SureVector Buffer	Adverse symptoms may include the following: pain or irritation watering redness
	dNTP Mix	No specific data.
	DpnI	No specific data.
<b>Inhalation</b>	: 5X SureSolution	No specific data.
	SureVector AmpR	No specific data.
	Selectable Marker	
	SureVector pUC Origin	No specific data.
	SureVector XP1 Linker	No specific data.
	SureVector LacI	No specific data.
	Repressor	
	SureVector T7-HIS6 E.	No specific data.
	coli Promoter	
	SureVector T7 E. coli	No specific data.
	Promoter	
	SureVector CBP	No specific data.
	Expression Tag (C-Term)	
	SureVector SBP	No specific data.
	Expression Tag (C-Term)	
	SureVector Thioredoxin	No specific data.
	Expression Tag (C-Term)	
	SureVector LacZ E. coli	No specific data.
	Control (C-term)	
	SureVector Enzyme Mix	No specific data.
	10X SureVector Buffer	No specific data.
	dNTP Mix	No specific data.
	DpnI	No specific data.
<b>Skin contact</b>	: 5X SureSolution	No specific data.
	SureVector AmpR	No specific data.
	Selectable Marker	
	SureVector pUC Origin	No specific data.
	SureVector XP1 Linker	No specific data.
	SureVector LacI	No specific data.
	Repressor	
	SureVector T7-HIS6 E.	No specific data.
	coli Promoter	
	SureVector T7 E. coli	No specific data.
	Promoter	
	SureVector CBP	No specific data.
	Expression Tag (C-Term)	
	SureVector SBP	No specific data.
	Expression Tag (C-Term)	
	SureVector Thioredoxin	No specific data.
	Expression Tag (C-Term)	
	SureVector LacZ E. coli	No specific data.
	Control (C-term)	
	SureVector Enzyme Mix	No specific data.
	10X SureVector Buffer	No specific data.

**SureVector E. coli C-terminal Tag kit, 5 rxn, Part Number G7518E**

## SECTION 4: First aid measures

<b>Ingestion</b>	dNTP Mix	No specific data.
	DpnI	No specific data.
	: 5X SureSolution	No specific data.
	SureVector AmpR	No specific data.
	Selectable Marker	
	SureVector pUC Origin	No specific data.
	SureVector XP1 Linker	No specific data.
	SureVector LacI	No specific data.
	Repressor	
	SureVector T7-HIS6 E. coli Promoter	No specific data.
	SureVector T7 E. coli Promoter	No specific data.
	SureVector CBP	No specific data.
	Expression Tag (C-Term)	
	SureVector SBP	No specific data.
	Expression Tag (C-Term)	
	SureVector Thioredoxin	No specific data.
	Expression Tag (C-Term)	
	SureVector LacZ E. coli Control (C-term)	No specific data.
	SureVector Enzyme Mix	No specific data.
	10X SureVector Buffer	No specific data.
dNTP Mix	No specific data.	
DpnI	No specific data.	

### 4.3 Indication of any immediate medical attention and special treatment needed

<b>Notes to physician</b>	: 5X SureSolution	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureVector AmpR	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Selectable Marker	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureVector pUC Origin	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureVector XP1 Linker	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureVector LacI	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Repressor	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureVector T7-HIS6 E. coli Promoter	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureVector T7 E. coli Promoter	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureVector CBP	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Expression Tag (C-Term)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureVector SBP	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Expression Tag (C-Term)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureVector Thioredoxin	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Expression Tag (C-Term)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureVector LacZ E. coli Control (C-term)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureVector Enzyme Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	10X SureVector Buffer	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	dNTP Mix	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	DpnI	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.



*SureVector E. coli C-terminal Tag kit, 5 rxn, Part Number G7518E*

## SECTION 4: First aid measures

<b>Specific treatments</b>	: 5X SureSolution SureVector AmpR Selectable Marker SureVector pUC Origin SureVector XP1 Linker SureVector LacI Repressor SureVector T7-HIS6 E. coli Promoter SureVector T7 E. coli Promoter SureVector CBP Expression Tag (C-Term) SureVector SBP Expression Tag (C-Term) SureVector Thioredoxin Expression Tag (C-Term)	No specific treatment. No specific treatment.
	SureVector LacZ E. coli Control (C-term) SureVector Enzyme Mix 10X SureVector Buffer dNTP Mix DpnI	No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	: 5X SureSolution SureVector AmpR Selectable Marker SureVector pUC Origin SureVector XP1 Linker SureVector LacI Repressor SureVector T7-HIS6 E. coli Promoter SureVector T7 E. coli Promoter SureVector CBP Expression Tag (C-Term) SureVector SBP Expression Tag (C-Term) SureVector Thioredoxin Expression Tag (C-Term)	Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	: 5X SureSolution SureVector AmpR Selectable Marker SureVector pUC Origin SureVector XP1 Linker SureVector LacI Repressor SureVector T7-HIS6 E. coli Promoter SureVector T7 E. coli	None known. None known. None known. None known. None known. None known. None known. None known.

SureVector E. coli C-terminal Tag kit, 5 rxn, Part Number G7518E

## SECTION 5: Firefighting measures

Promoter SureVector CBP Expression Tag (C-Term)	None known.
SureVector SBP Expression Tag (C-Term)	None known.
SureVector Thioredoxin Expression Tag (C-Term)	None known.
SureVector LacZ E. coli Control (C-term)	None known.
SureVector Enzyme Mix	None known.
10X SureVector Buffer	None known.
dNTP Mix	None known.
Dpnl	None known.

### 5.2 Special hazards arising from the substance or mixture

#### Hazards from the substance or mixture

: 5X SureSolution	In a fire or if heated, a pressure increase will occur and the container may burst.
SureVector AmpR Selectable Marker	In a fire or if heated, a pressure increase will occur and the container may burst.
SureVector pUC Origin	In a fire or if heated, a pressure increase will occur and the container may burst.
SureVector XP1 Linker	In a fire or if heated, a pressure increase will occur and the container may burst.
SureVector LacI Repressor	In a fire or if heated, a pressure increase will occur and the container may burst.
SureVector T7-HIS6 E. coli Promoter	In a fire or if heated, a pressure increase will occur and the container may burst.
SureVector T7 E. coli Promoter	In a fire or if heated, a pressure increase will occur and the container may burst.
SureVector CBP Expression Tag (C-Term)	In a fire or if heated, a pressure increase will occur and the container may burst.
SureVector SBP Expression Tag (C-Term)	In a fire or if heated, a pressure increase will occur and the container may burst.
SureVector Thioredoxin Expression Tag (C-Term)	In a fire or if heated, a pressure increase will occur and the container may burst.
SureVector LacZ E. coli Control (C-term)	In a fire or if heated, a pressure increase will occur and the container may burst.
SureVector Enzyme Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
10X SureVector Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
dNTP Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
Dpnl	In a fire or if heated, a pressure increase will occur and the container may burst.

#### Hazardous combustion products

: 5X SureSolution	Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides
SureVector AmpR Selectable Marker	No specific data.
SureVector pUC Origin	No specific data.
SureVector XP1 Linker	No specific data.
SureVector LacI Repressor	No specific data.
SureVector T7-HIS6 E. coli Promoter	No specific data.
SureVector T7 E. coli Promoter	No specific data.

**SureVector E. coli C-terminal Tag kit, 5 rxn, Part Number G7518E**

## SECTION 5: Firefighting measures

SureVector CBP Expression Tag (C-Term)	No specific data.
SureVector SBP Expression Tag (C-Term)	No specific data.
SureVector Thioredoxin Expression Tag (C-Term)	No specific data.
SureVector LacZ E. coli Control (C-term)	No specific data.
SureVector Enzyme Mix	Decomposition products may include the following materials: carbon dioxide carbon monoxide
10X SureVector Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides halogenated compounds metal oxide/oxides
dNTP Mix	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides
Dpnl	Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides

### 5.3 Advice for firefighters

#### Special precautions for fire-fighters

: 5X SureSolution	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
SureVector AmpR Selectable Marker	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
SureVector pUC Origin	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
SureVector XP1 Linker	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
SureVector LacI Repressor	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
SureVector T7-HIS6 E. coli Promoter	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
SureVector T7 E. coli Promoter	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
SureVector CBP Expression Tag (C-Term)	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
SureVector SBP Expression Tag (C-Term)	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
SureVector Thioredoxin Expression Tag (C-Term)	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

SureVector E. coli C-terminal Tag kit, 5 rxn, Part Number G7518E

## SECTION 5: Firefighting measures

### Special protective equipment for fire-fighters

SureVector LacZ E. coli Control (C-term)	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
SureVector Enzyme Mix	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
10X SureVector Buffer	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
dNTP Mix	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
DpnI	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
: 5X SureSolution	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
SureVector AmpR Selectable Marker	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
SureVector pUC Origin	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
SureVector XP1 Linker	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
SureVector LacI Repressor	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
SureVector T7-HIS6 E. coli Promoter	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
SureVector T7 E. coli Promoter	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
SureVector CBP Expression Tag (C-Term)	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a

SureVector *E. coli* C-terminal Tag kit, 5 rxn, Part Number G7518E

## SECTION 5: Firefighting measures

SureVector SBP Expression Tag (C-Term)	basic level of protection for chemical incidents. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
SureVector Thioredoxin Expression Tag (C-Term)	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
SureVector LacZ <i>E. coli</i> Control (C-term)	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
SureVector Enzyme Mix	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
10X SureVector Buffer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
dNTP Mix	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
Dpnl	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

<b>For non-emergency personnel</b>	: 5X SureSolution	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	SureVector AmpR Selectable Marker	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	SureVector pUC Origin	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.

SureVector *E. coli* C-terminal Tag kit, 5 rxn, Part Number G7518E

## SECTION 6: Accidental release measures

SureVector XP1 Linker	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
SureVector LacI Repressor	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
SureVector T7-HIS6 <i>E. coli</i> Promoter	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
SureVector T7 <i>E. coli</i> Promoter	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
SureVector CBP Expression Tag (C-Term)	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
SureVector SBP Expression Tag (C-Term)	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
SureVector Thioredoxin Expression Tag (C-Term)	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
SureVector LacZ <i>E. coli</i> Control (C-term)	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
SureVector Enzyme Mix	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
10X SureVector Buffer	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
dNTP Mix	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
DpnI	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.

SureVector *E. coli* C-terminal Tag kit, 5 rxn, Part Number G7518E

## SECTION 6: Accidental release measures

### For emergency responders

: 5X SureSolution	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureVector AmpR Selectable Marker	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureVector pUC Origin	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureVector XP1 Linker	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureVector LacI Repressor	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureVector T7-HIS6 <i>E. coli</i> Promoter	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureVector T7 <i>E. coli</i> Promoter	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureVector CBP Expression Tag (C-Term)	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureVector SBP Expression Tag (C-Term)	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureVector Thioredoxin Expression Tag (C-Term)	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureVector LacZ <i>E. coli</i> Control (C-term)	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureVector Enzyme Mix	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
10X SureVector Buffer	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
dNTP Mix	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
DpnI	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**SureVector E. coli C-terminal Tag kit, 5 rxn, Part Number G7518E**

## SECTION 6: Accidental release measures

<b>6.2 Environmental precautions</b>	: 5X SureSolution	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	SureVector AmpR Selectable Marker	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	SureVector pUC Origin	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	SureVector XP1 Linker	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	SureVector LacI Repressor	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	SureVector T7-HIS6 E. coli Promoter	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	SureVector T7 E. coli Promoter	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	SureVector CBP Expression Tag (C-Term)	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	SureVector SBP Expression Tag (C-Term)	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	SureVector Thioredoxin Expression Tag (C-Term)	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	SureVector LacZ E. coli Control (C-term)	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	SureVector Enzyme Mix	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	10X SureVector Buffer	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	dNTP Mix	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	DpnI	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### 6.3 Methods and material for containment and cleaning up

**Date of issue/Date of revision** : 31/05/2017

**24/56**



SureVector *E. coli* C-terminal Tag kit, 5 rxn, Part Number G7518E

## SECTION 6: Accidental release measures

<b>Methods for cleaning up</b>	: 5X SureSolution	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	SureVector AmpR Selectable Marker	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	SureVector pUC Origin	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	SureVector XP1 Linker	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	SureVector LacI Repressor	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	SureVector T7-HIS6 <i>E. coli</i> Promoter	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	SureVector T7 <i>E. coli</i> Promoter	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	SureVector CBP Expression Tag (C-Term)	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	SureVector SBP Expression Tag (C-Term)	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	SureVector Thioredoxin Expression Tag (C-Term)	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	SureVector LacZ <i>E. coli</i> Control (C-term)	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	SureVector Enzyme Mix	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	10X SureVector Buffer	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively,

SureVector *E. coli* C-terminal Tag kit, 5 rxn, Part Number G7518E

## SECTION 6: Accidental release measures

	or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
dNTP Mix	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Dpnl	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**6.4 Reference to other sections** : See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

<b>Protective measures</b>	: 5X SureSolution	Put on appropriate personal protective equipment (see Section 8).
	SureVector AmpR Selectable Marker	Put on appropriate personal protective equipment (see Section 8).
	SureVector pUC Origin	Put on appropriate personal protective equipment (see Section 8).
	SureVector XP1 Linker	Put on appropriate personal protective equipment (see Section 8).
	SureVector LacI Repressor	Put on appropriate personal protective equipment (see Section 8).
	SureVector T7-HIS6 <i>E. coli</i> Promoter	Put on appropriate personal protective equipment (see Section 8).
	SureVector T7 <i>E. coli</i> Promoter	Put on appropriate personal protective equipment (see Section 8).
	SureVector CBP Expression Tag (C-Term)	Put on appropriate personal protective equipment (see Section 8).
	SureVector SBP Expression Tag (C-Term)	Put on appropriate personal protective equipment (see Section 8).
	SureVector Thioredoxin Expression Tag (C-Term)	Put on appropriate personal protective equipment (see Section 8).
	SureVector LacZ <i>E. coli</i> Control (C-term)	Put on appropriate personal protective equipment (see Section 8).
	SureVector Enzyme Mix	Put on appropriate personal protective equipment (see Section 8).
	10X SureVector Buffer	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
	dNTP Mix	Put on appropriate personal protective equipment (see Section 8).
	Dpnl	Put on appropriate personal protective equipment (see Section 8).

**SureVector E. coli C-terminal Tag kit, 5 rxn, Part Number G7518E**

## SECTION 7: Handling and storage

### Advice on general occupational hygiene

: 5X SureSolution	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
SureVector AmpR Selectable Marker	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
SureVector pUC Origin	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
SureVector XP1 Linker	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
SureVector LacI Repressor	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
SureVector T7-HIS6 E. coli Promoter	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
SureVector T7 E. coli Promoter	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
SureVector CBP Expression Tag (C-Term)	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
SureVector SBP Expression Tag (C-Term)	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
SureVector Thioredoxin Expression Tag (C-Term)	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
SureVector LacZ E. coli Control (C-term)	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

SureVector *E. coli* C-terminal Tag kit, 5 rxn, Part Number G7518E

## SECTION 7: Handling and storage

	Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
SureVector Enzyme Mix	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
10X SureVector Buffer	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
dNTP Mix	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
DpnI	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

### 7.2 Conditions for safe storage, including any incompatibilities

<b>Storage</b>	: 5X SureSolution	Storage temperature: -20°C (-4°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
	SureVector AmpR Selectable Marker	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
	SureVector pUC Origin	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
	SureVector XP1 Linker	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly

SureVector *E. coli* C-terminal Tag kit, 5 rxn, Part Number G7518E

## SECTION 7: Handling and storage

	closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
SureVector LacI Repressor	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
SureVector T7-HIS6 <i>E. coli</i> Promoter	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
SureVector T7 <i>E. coli</i> Promoter	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
SureVector CBP Expression Tag (C-Term)	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
SureVector SBP Expression Tag (C-Term)	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
SureVector Thioredoxin Expression Tag (C-Term)	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
SureVector LacZ <i>E. coli</i> Control (C-term)	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see

SureVector *E. coli* C-terminal Tag kit, 5 rxn, Part Number G7518E

## SECTION 7: Handling and storage

	Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
SureVector Enzyme Mix	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
10X SureVector Buffer	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
dNTP Mix	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
DpnI	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

### 7.3 Specific end use(s)

#### Recommendations

5X SureSolution	Industrial applications, Professional applications.
SureVector AmpR Selectable Marker	Industrial applications, Professional applications.
SureVector pUC Origin	Industrial applications, Professional applications.
SureVector XP1 Linker	Industrial applications, Professional applications.
SureVector LacI Repressor	Industrial applications, Professional applications.
SureVector T7-HIS6 <i>E. coli</i> Promoter	Industrial applications, Professional applications.
SureVector T7 <i>E. coli</i> Promoter	Industrial applications, Professional applications.
SureVector CBP Expression Tag (C-Term)	Industrial applications, Professional applications.
SureVector SBP Expression Tag (C-Term)	Industrial applications, Professional applications.
SureVector Thioredoxin Expression Tag (C-Term)	Industrial applications, Professional applications.

SureVector E. coli C-terminal Tag kit, 5 rxn, Part Number G7518E

## SECTION 7: Handling and storage

	SureVector LacZ E. coli Control (C-term)	Industrial applications, Professional applications.
	SureVector Enzyme Mix	Industrial applications, Professional applications.
	10X SureVector Buffer	Industrial applications, Professional applications.
	dNTP Mix	Industrial applications, Professional applications.
	DpnI	Industrial applications, Professional applications.
<b>Industrial sector specific solutions</b>	5X SureSolution	Not applicable.
	SureVector AmpR Selectable Marker	Not applicable.
	SureVector pUC Origin	Not applicable.
	SureVector XP1 Linker	Not applicable.
	SureVector LacI Repressor	Not applicable.
	SureVector T7-HIS6 E. coli Promoter	Not applicable.
	SureVector T7 E. coli Promoter	Not applicable.
	SureVector CBP	Not applicable.
	Expression Tag (C-Term)	Not applicable.
	SureVector SBP	Not applicable.
	Expression Tag (C-Term)	Not applicable.
	SureVector Thioredoxin	Not applicable.
	Expression Tag (C-Term)	Not applicable.
	SureVector LacZ E. coli Control (C-term)	Not applicable.
	SureVector Enzyme Mix	Not applicable.
	10X SureVector Buffer	Not applicable.
dNTP Mix	Not applicable.	
DpnI	Not applicable.	

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Exposure limit values
<b>SureVector Enzyme Mix</b> Glycerol	<b>EH40/2005 WELs (United Kingdom (UK), 12/2011).</b> TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Mist
<b>DpnI</b> Glycerol	<b>EH40/2005 WELs (United Kingdom (UK), 12/2011).</b> TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Mist

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### DNELs/DMELs

No DNELs/DMELs available.

SureVector *E. coli* C-terminal Tag kit, 5 rxn, Part Number G7518E

## SECTION 8: Exposure controls/personal protection

### PNECs

No PNECs available

### 8.2 Exposure controls

**Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

### Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

### Skin protection

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

<b>Physical state</b>	: 5X SureSolution	Liquid. [Clear.]
	SureVector AmpR	Liquid.
	Selectable Marker	
	SureVector pUC Origin	Liquid.
	SureVector XP1 Linker	Liquid.
	SureVector Lacl	Liquid.
	Repressor	
	SureVector T7-HIS6 <i>E. coli</i> Promoter	Liquid.
	SureVector T7 <i>E. coli</i> Promoter	Liquid.
	SureVector CBP	Liquid.
	Expression Tag (C-Term)	



**SureVector E. coli C-terminal Tag kit, 5 rxn, Part Number G7518E**

**SECTION 9: Physical and chemical properties**

		SureVector SBP Expression Tag (C-Term)	Liquid.
		SureVector Thioredoxin Expression Tag (C-Term)	Liquid.
		SureVector LacZ E. coli Control (C-term)	Liquid.
		SureVector Enzyme Mix	Liquid.
		10X SureVector Buffer	Liquid.
		dNTP Mix	Liquid.
		DpnI	Liquid.
<b>Colour</b>	<b>:</b>	5X SureSolution	Blue.
		SureVector AmpR Selectable Marker	Not available.
		SureVector pUC Origin	Not available.
		SureVector XP1 Linker	Not available.
		SureVector LacI Repressor	Not available.
		SureVector T7-HIS6 E. coli Promoter	Not available.
		SureVector T7 E. coli Promoter	Not available.
		SureVector CBP Expression Tag (C-Term)	Not available.
		SureVector SBP Expression Tag (C-Term)	Not available.
		SureVector Thioredoxin Expression Tag (C-Term)	Not available.
		SureVector LacZ E. coli Control (C-term)	Not available.
		SureVector Enzyme Mix	Not available.
		10X SureVector Buffer	Not available.
		dNTP Mix	Not available.
		DpnI	Not available.
<b>Odour</b>	<b>:</b>	5X SureSolution	Odourless. [Slight]
		SureVector AmpR Selectable Marker	Not available.
		SureVector pUC Origin	Not available.
		SureVector XP1 Linker	Not available.
		SureVector LacI Repressor	Not available.
		SureVector T7-HIS6 E. coli Promoter	Not available.
		SureVector T7 E. coli Promoter	Not available.
		SureVector CBP Expression Tag (C-Term)	Not available.
		SureVector SBP Expression Tag (C-Term)	Not available.
		SureVector Thioredoxin Expression Tag (C-Term)	Not available.
		SureVector LacZ E. coli Control (C-term)	Not available.
		SureVector Enzyme Mix	Not available.
		10X SureVector Buffer	Not available.

*SureVector E. coli C-terminal Tag kit, 5 rxn, Part Number G7518E*

## SECTION 9: Physical and chemical properties

	dNTP Mix	Not available.
	DpnI	Not available.
<b>Odour threshold</b>	: 5X SureSolution	Not available.
	SureVector AmpR	Not available.
	Selectable Marker	
	SureVector pUC Origin	Not available.
	SureVector XP1 Linker	Not available.
	SureVector LacI	Not available.
	Repressor	
	SureVector T7-HIS6 E. coli Promoter	Not available.
	SureVector T7 E. coli Promoter	Not available.
	SureVector CBP	Not available.
	Expression Tag (C-Term)	
	SureVector SBP	Not available.
	Expression Tag (C-Term)	
	SureVector Thioredoxin	Not available.
	Expression Tag (C-Term)	
	SureVector LacZ E. coli Control (C-term)	Not available.
	SureVector Enzyme Mix	Not available.
	10X SureVector Buffer	Not available.
	dNTP Mix	Not available.
	DpnI	Not available.
<b>pH</b>	: 5X SureSolution	Not available.
	SureVector AmpR	8
	Selectable Marker	
	SureVector pUC Origin	8
	SureVector XP1 Linker	8
	SureVector LacI	8
	Repressor	
	SureVector T7-HIS6 E. coli Promoter	8
	SureVector T7 E. coli Promoter	8
	SureVector CBP	8
	Expression Tag (C-Term)	
	SureVector SBP	8
	Expression Tag (C-Term)	
	SureVector Thioredoxin	8
	Expression Tag (C-Term)	
	SureVector LacZ E. coli Control (C-term)	8
	SureVector Enzyme Mix	8.2
	10X SureVector Buffer	8.8
	dNTP Mix	7.5
	DpnI	7.5
<b>Melting point/freezing point</b>	: 5X SureSolution	18.5°C
	SureVector AmpR	0°C
	Selectable Marker	
	SureVector pUC Origin	0°C
	SureVector XP1 Linker	0°C
	SureVector LacI	0°C
	Repressor	

SureVector E. coli C-terminal Tag kit, 5 rxn, Part Number G7518E

## SECTION 9: Physical and chemical properties

	SureVector T7-HIS6 E. coli Promoter	0°C
	SureVector T7 E. coli Promoter	0°C
	SureVector CBP Expression Tag (C-Term)	0°C
	SureVector SBP Expression Tag (C-Term)	0°C
	SureVector Thioredoxin Expression Tag (C-Term)	0°C
	SureVector LacZ E. coli Control (C-term)	0°C
	SureVector Enzyme Mix	Not available.
	10X SureVector Buffer	Not available.
	dNTP Mix	Not available.
	DpnI	Not available.
<b>Initial boiling point and boiling range</b>	: 5X SureSolution	189°C
	SureVector AmpR Selectable Marker	100°C
	SureVector pUC Origin	100°C
	SureVector XP1 Linker	100°C
	SureVector LacI Repressor	100°C
	SureVector T7-HIS6 E. coli Promoter	100°C
	SureVector T7 E. coli Promoter	100°C
	SureVector CBP Expression Tag (C-Term)	100°C
	SureVector SBP Expression Tag (C-Term)	100°C
	SureVector Thioredoxin Expression Tag (C-Term)	100°C
	SureVector LacZ E. coli Control (C-term)	100°C
	SureVector Enzyme Mix	Not available.
	10X SureVector Buffer	Not available.
	dNTP Mix	Not available.
	DpnI	Not available.
<b>Flash point</b>	: 5X SureSolution	Closed cup: 87°C
	SureVector AmpR Selectable Marker	Not available.
	SureVector pUC Origin	Not available.
	SureVector XP1 Linker	Not available.
	SureVector LacI Repressor	Not available.
	SureVector T7-HIS6 E. coli Promoter	Not available.
	SureVector T7 E. coli Promoter	Not available.
	SureVector CBP Expression Tag (C-Term)	Not available.
	SureVector SBP Expression Tag (C-Term)	Not available.

SureVector *E. coli* C-terminal Tag kit, 5 rxn, Part Number G7518E

## SECTION 9: Physical and chemical properties

	SureVector Thioredoxin Expression Tag (C-Term)	Not available.
	SureVector LacZ <i>E. coli</i> Control (C-term)	Not available.
	SureVector Enzyme Mix	Not available.
	10X SureVector Buffer	Not available.
	dNTP Mix	Not available.
	DpnI	Not available.
<b>Evaporation rate</b>	: 5X SureSolution	0.026 (butyl acetate = 1)
	SureVector AmpR Selectable Marker	Not available.
	SureVector pUC Origin	Not available.
	SureVector XP1 Linker	Not available.
	SureVector LacI Repressor	Not available.
	SureVector T7-HIS6 <i>E. coli</i> Promoter	Not available.
	SureVector T7 <i>E. coli</i> Promoter	Not available.
	SureVector CBP Expression Tag (C-Term)	Not available.
	SureVector SBP Expression Tag (C-Term)	Not available.
	SureVector Thioredoxin Expression Tag (C-Term)	Not available.
	SureVector LacZ <i>E. coli</i> Control (C-term)	Not available.
	SureVector Enzyme Mix	Not available.
	10X SureVector Buffer	Not available.
	dNTP Mix	Not available.
	DpnI	Not available.
<b>Flammability (solid, gas)</b>	: 5X SureSolution	Not applicable.
	SureVector AmpR Selectable Marker	Not applicable.
	SureVector pUC Origin	Not applicable.
	SureVector XP1 Linker	Not applicable.
	SureVector LacI Repressor	Not applicable.
	SureVector T7-HIS6 <i>E. coli</i> Promoter	Not applicable.
	SureVector T7 <i>E. coli</i> Promoter	Not applicable.
	SureVector CBP Expression Tag (C-Term)	Not applicable.
	SureVector SBP Expression Tag (C-Term)	Not applicable.
	SureVector Thioredoxin Expression Tag (C-Term)	Not applicable.
	SureVector LacZ <i>E. coli</i> Control (C-term)	Not applicable.
	SureVector Enzyme Mix	Not applicable.
	10X SureVector Buffer	Not applicable.
	dNTP Mix	Not applicable.

**SureVector E. coli C-terminal Tag kit, 5 rxn, Part Number G7518E**

## SECTION 9: Physical and chemical properties

	DpnI	Not applicable.	
<b>Upper/lower flammability or explosive limits</b>	: 5X SureSolution	Lower: 2.6% Upper: 28.5%	
	SureVector AmpR Selectable Marker	Not available.	
	SureVector pUC Origin	Not available.	
	SureVector XP1 Linker	Not available.	
	SureVector LacI Repressor	Not available.	
	SureVector T7-HIS6 E. coli Promoter	Not available.	
	SureVector T7 E. coli Promoter	Not available.	
	SureVector CBP Expression Tag (C-Term)	Not available.	
	SureVector SBP Expression Tag (C-Term)	Not available.	
	SureVector Thioredoxin Expression Tag (C-Term)	Not available.	
	SureVector LacZ E. coli Control (C-term)	Not available.	
	SureVector Enzyme Mix	Not available.	
	10X SureVector Buffer	Not available.	
	dNTP Mix	Not available.	
	DpnI	Not available.	
	<b>Vapour pressure</b>	: 5X SureSolution	0.056 kPa [room temperature]
		SureVector AmpR Selectable Marker	Not available.
		SureVector pUC Origin	Not available.
		SureVector XP1 Linker	Not available.
		SureVector LacI Repressor	Not available.
SureVector T7-HIS6 E. coli Promoter		Not available.	
SureVector T7 E. coli Promoter		Not available.	
SureVector CBP Expression Tag (C-Term)		Not available.	
SureVector SBP Expression Tag (C-Term)		Not available.	
SureVector Thioredoxin Expression Tag (C-Term)		Not available.	
SureVector LacZ E. coli Control (C-term)		Not available.	
SureVector Enzyme Mix		Not available.	
10X SureVector Buffer		Not available.	
dNTP Mix		Not available.	
DpnI		Not available.	

**SureVector E. coli C-terminal Tag kit, 5 rxn, Part Number G7518E**

## SECTION 9: Physical and chemical properties

<b>Vapour density</b>	: 5X SureSolution	2.7 [Air = 1]
	SureVector AmpR	Not available.
	Selectable Marker	
	SureVector pUC Origin	Not available.
	SureVector XP1 Linker	Not available.
	SureVector Lacl	Not available.
	Repressor	
	SureVector T7-HIS6 E. coli Promoter	Not available.
	SureVector T7 E. coli Promoter	Not available.
	SureVector CBP	Not available.
	Expression Tag (C-Term)	
	SureVector SBP	Not available.
	Expression Tag (C-Term)	
	SureVector Thioredoxin	Not available.
	Expression Tag (C-Term)	
	SureVector LacZ E. coli Control (C-term)	Not available.
	SureVector Enzyme Mix	Not available.
	10X SureVector Buffer	Not available.
	dNTP Mix	Not available.
	DpnI	Not available.
<b>Relative density</b>	: 5X SureSolution	1.1
	SureVector AmpR	Not available.
	Selectable Marker	
	SureVector pUC Origin	Not available.
	SureVector XP1 Linker	Not available.
	SureVector Lacl	Not available.
	Repressor	
	SureVector T7-HIS6 E. coli Promoter	Not available.
	SureVector T7 E. coli Promoter	Not available.
	SureVector CBP	Not available.
	Expression Tag (C-Term)	
	SureVector SBP	Not available.
	Expression Tag (C-Term)	
	SureVector Thioredoxin	Not available.
	Expression Tag (C-Term)	
	SureVector LacZ E. coli Control (C-term)	Not available.
	SureVector Enzyme Mix	Not available.
	10X SureVector Buffer	Not available.
	dNTP Mix	Not available.
	DpnI	Not available.
<b>Solubility(ies)</b>	: 5X SureSolution	Easily soluble in the following materials: cold water and hot water.
	SureVector AmpR	Easily soluble in the following materials: cold water and hot water.
	Selectable Marker	Easily soluble in the following materials: cold water and hot water.
	SureVector pUC Origin	Easily soluble in the following materials: cold water and hot water.
	SureVector XP1 Linker	Easily soluble in the following materials: cold water and hot water.
	SureVector Lacl	Easily soluble in the following materials: cold water and hot water.

**SureVector E. coli C-terminal Tag kit, 5 rxn, Part Number G7518E**

**SECTION 9: Physical and chemical properties**

Repressor	hot water.
SureVector T7-HIS6 E. coli Promoter	Easily soluble in the following materials: cold water and hot water.
SureVector T7 E. coli Promoter	Easily soluble in the following materials: cold water and hot water.
SureVector CBP Expression Tag (C-Term)	Easily soluble in the following materials: cold water and hot water.
SureVector SBP Expression Tag (C-Term)	Easily soluble in the following materials: cold water and hot water.
SureVector Thioredoxin Expression Tag (C-Term)	Easily soluble in the following materials: cold water and hot water.
SureVector LacZ E. coli Control (C-term)	Easily soluble in the following materials: cold water and hot water.
SureVector Enzyme Mix	Soluble in the following materials: cold water and hot water.
10X SureVector Buffer	Easily soluble in the following materials: cold water and hot water.
dNTP Mix	Easily soluble in the following materials: cold water and hot water.
DpnI	Soluble in the following materials: cold water and hot water.
5X SureSolution	-1.35
SureVector AmpR Selectable Marker	Not available.
SureVector pUC Origin	Not available.
SureVector XP1 Linker	Not available.
SureVector LacI Repressor	Not available.
SureVector T7-HIS6 E. coli Promoter	Not available.
SureVector T7 E. coli Promoter	Not available.
SureVector CBP Expression Tag (C-Term)	Not available.
SureVector SBP Expression Tag (C-Term)	Not available.
SureVector Thioredoxin Expression Tag (C-Term)	Not available.
SureVector LacZ E. coli Control (C-term)	Not available.
SureVector Enzyme Mix	Not available.
10X SureVector Buffer	Not available.
dNTP Mix	Not available.
DpnI	Not available.
5X SureSolution	300 to 302°C
SureVector AmpR Selectable Marker	Not available.
SureVector pUC Origin	Not available.
SureVector XP1 Linker	Not available.
SureVector LacI Repressor	Not available.
SureVector T7-HIS6 E. coli Promoter	Not available.
SureVector T7 E. coli Promoter	Not available.
SureVector CBP	Not available.

**Partition coefficient: n-octanol/water**

**Auto-ignition temperature**

**SureVector E. coli C-terminal Tag kit, 5 rxn, Part Number G7518E**

## SECTION 9: Physical and chemical properties

	Expression Tag (C-Term)	SureVector SBP	Not available.
	Expression Tag (C-Term)	SureVector Thioredoxin	Not available.
	Expression Tag (C-Term)	SureVector LacZ E. coli Control (C-term)	Not available.
	SureVector Enzyme Mix	Not available.	
	10X SureVector Buffer	Not available.	
	dNTP Mix	Not available.	
	DpnI	Not available.	
<b>Decomposition temperature</b>	: 5X SureSolution	140 to 189°C	
	SureVector AmpR Selectable Marker	Not available.	
	SureVector pUC Origin	Not available.	
	SureVector XP1 Linker	Not available.	
	SureVector LacI Repressor	Not available.	
	SureVector T7-HIS6 E. coli Promoter	Not available.	
	SureVector T7 E. coli Promoter	Not available.	
	SureVector CBP	Not available.	
	Expression Tag (C-Term)	SureVector SBP	Not available.
	Expression Tag (C-Term)	SureVector Thioredoxin	Not available.
	Expression Tag (C-Term)	SureVector LacZ E. coli Control (C-term)	Not available.
	SureVector Enzyme Mix	Not available.	
	10X SureVector Buffer	Not available.	
	dNTP Mix	Not available.	
	DpnI	Not available.	
<b>Viscosity</b>	: 5X SureSolution	Dynamic (room temperature): 2.14 mPa·s	
	SureVector AmpR Selectable Marker	Not available.	
	SureVector pUC Origin	Not available.	
	SureVector XP1 Linker	Not available.	
	SureVector LacI Repressor	Not available.	
	SureVector T7-HIS6 E. coli Promoter	Not available.	
	SureVector T7 E. coli Promoter	Not available.	
	SureVector CBP	Not available.	
	Expression Tag (C-Term)	SureVector SBP	Not available.
	Expression Tag (C-Term)	SureVector Thioredoxin	Not available.
	Expression Tag (C-Term)	SureVector LacZ E. coli Control (C-term)	Not available.



SureVector *E. coli* C-terminal Tag kit, 5 rxn, Part Number G7518E

## SECTION 9: Physical and chemical properties

	SureVector Enzyme Mix	Not available.
	10X SureVector Buffer	Not available.
	dNTP Mix	Not available.
	DpnI	Not available.
<b>Explosive properties</b>	: 5X SureSolution	Not available.
	SureVector AmpR	Not available.
	Selectable Marker	
	SureVector pUC Origin	Not available.
	SureVector XP1 Linker	Not available.
	SureVector LacI	Not available.
	Repressor	
	SureVector T7-HIS6 <i>E. coli</i> Promoter	Not available.
	SureVector T7 <i>E. coli</i> Promoter	Not available.
	SureVector CBP	Not available.
	Expression Tag (C-Term)	
	SureVector SBP	Not available.
	Expression Tag (C-Term)	
	SureVector Thioredoxin	Not available.
	Expression Tag (C-Term)	
	SureVector LacZ <i>E. coli</i> Control (C-term)	Not available.
	SureVector Enzyme Mix	Not available.
	10X SureVector Buffer	Not available.
	dNTP Mix	Not available.
	DpnI	Not available.
<b>Oxidising properties</b>	: 5X SureSolution	Not available.
	SureVector AmpR	Not available.
	Selectable Marker	
	SureVector pUC Origin	Not available.
	SureVector XP1 Linker	Not available.
	SureVector LacI	Not available.
	Repressor	
	SureVector T7-HIS6 <i>E. coli</i> Promoter	Not available.
	SureVector T7 <i>E. coli</i> Promoter	Not available.
	SureVector CBP	Not available.
	Expression Tag (C-Term)	
	SureVector SBP	Not available.
	Expression Tag (C-Term)	
	SureVector Thioredoxin	Not available.
	Expression Tag (C-Term)	
	SureVector LacZ <i>E. coli</i> Control (C-term)	Not available.
	SureVector Enzyme Mix	Not available.
	10X SureVector Buffer	Not available.
	dNTP Mix	Not available.
	DpnI	Not available.

### 9.2 Other information

No additional information.

**SureVector E. coli C-terminal Tag kit, 5 rxn, Part Number G7518E**

## SECTION 10: Stability and reactivity

<b>10.1 Reactivity</b>	:	5X SureSolution	No specific test data related to reactivity available for this product or its ingredients.
		SureVector AmpR	No specific test data related to reactivity available for this product or its ingredients.
		Selectable Marker	No specific test data related to reactivity available for this product or its ingredients.
		SureVector pUC Origin	No specific test data related to reactivity available for this product or its ingredients.
		SureVector XP1 Linker	No specific test data related to reactivity available for this product or its ingredients.
		SureVector LacI	No specific test data related to reactivity available for this product or its ingredients.
		Repressor	No specific test data related to reactivity available for this product or its ingredients.
		SureVector T7-HIS6 E. coli Promoter	No specific test data related to reactivity available for this product or its ingredients.
		SureVector T7 E. coli Promoter	No specific test data related to reactivity available for this product or its ingredients.
		SureVector CBP	No specific test data related to reactivity available for this product or its ingredients.
		Expression Tag (C-Term)	No specific test data related to reactivity available for this product or its ingredients.
		SureVector SBP	No specific test data related to reactivity available for this product or its ingredients.
		Expression Tag (C-Term)	No specific test data related to reactivity available for this product or its ingredients.
		SureVector Thioredoxin	No specific test data related to reactivity available for this product or its ingredients.
		Expression Tag (C-Term)	No specific test data related to reactivity available for this product or its ingredients.
		SureVector LacZ E. coli Control (C-term)	No specific test data related to reactivity available for this product or its ingredients.
		SureVector Enzyme Mix	No specific test data related to reactivity available for this product or its ingredients.
		10X SureVector Buffer	No specific test data related to reactivity available for this product or its ingredients.
		dNTP Mix	No specific test data related to reactivity available for this product or its ingredients.
		DpnI	No specific test data related to reactivity available for this product or its ingredients.

<b>10.2 Chemical stability</b>	:	5X SureSolution	The product is stable.
		SureVector AmpR	The product is stable.
		Selectable Marker	The product is stable.
		SureVector pUC Origin	The product is stable.
		SureVector XP1 Linker	The product is stable.
		SureVector LacI	The product is stable.
		Repressor	The product is stable.
		SureVector T7-HIS6 E. coli Promoter	The product is stable.
		SureVector T7 E. coli Promoter	The product is stable.
		SureVector CBP	The product is stable.
		Expression Tag (C-Term)	The product is stable.
		SureVector SBP	The product is stable.
		Expression Tag (C-Term)	The product is stable.
		SureVector Thioredoxin	The product is stable.
		Expression Tag (C-Term)	The product is stable.
		SureVector LacZ E. coli Control (C-term)	The product is stable.
		SureVector Enzyme Mix	The product is stable.
		10X SureVector Buffer	The product is stable.
		dNTP Mix	The product is stable.
		DpnI	The product is stable.

**SureVector E. coli C-terminal Tag kit, 5 rxn, Part Number G7518E**

## SECTION 10: Stability and reactivity

<b>10.3 Possibility of hazardous reactions</b>	: 5X SureSolution SureVector AmpR Selectable Marker SureVector pUC Origin SureVector XP1 Linker SureVector LacI Repressor SureVector T7-HIS6 E. coli Promoter SureVector T7 E. coli Promoter SureVector CBP Expression Tag (C-Term) SureVector SBP Expression Tag (C-Term) SureVector Thioredoxin Expression Tag (C-Term)  SureVector LacZ E. coli Control (C-term) SureVector Enzyme Mix 10X SureVector Buffer dNTP Mix DpnI	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
<b>10.4 Conditions to avoid</b>	: 5X SureSolution SureVector AmpR Selectable Marker SureVector pUC Origin SureVector XP1 Linker SureVector LacI Repressor SureVector T7-HIS6 E. coli Promoter SureVector T7 E. coli Promoter SureVector CBP Expression Tag (C-Term) SureVector SBP Expression Tag (C-Term) SureVector Thioredoxin Expression Tag (C-Term)  SureVector LacZ E. coli Control (C-term) SureVector Enzyme Mix 10X SureVector Buffer dNTP Mix DpnI	No specific data. No specific data.

*SureVector E. coli C-terminal Tag kit, 5 rxn, Part Number G7518E*

## SECTION 10: Stability and reactivity

<b>10.5 Incompatible materials</b>	: 5X SureSolution	May react or be incompatible with oxidising materials.
	SureVector AmpR	May react or be incompatible with oxidising materials.
	Selectable Marker	
	SureVector pUC Origin	May react or be incompatible with oxidising materials.
	SureVector XP1 Linker	May react or be incompatible with oxidising materials.
	SureVector LacI	May react or be incompatible with oxidising materials.
	Repressor	
	SureVector T7-HIS6 E. coli Promoter	May react or be incompatible with oxidising materials.
	SureVector T7 E. coli Promoter	May react or be incompatible with oxidising materials.
	SureVector CBP	May react or be incompatible with oxidising materials.
	Expression Tag (C-Term)	
	SureVector SBP	May react or be incompatible with oxidising materials.
	Expression Tag (C-Term)	
	SureVector Thioredoxin	May react or be incompatible with oxidising materials.
	Expression Tag (C-Term)	
<b>10.6 Hazardous decomposition products</b>	: 5X SureSolution	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	SureVector AmpR	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Selectable Marker	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	SureVector pUC Origin	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	SureVector XP1 Linker	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	SureVector LacI	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Repressor	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	SureVector T7-HIS6 E. coli Promoter	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	SureVector T7 E. coli Promoter	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	SureVector CBP	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Expression Tag (C-Term)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	SureVector SBP	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Expression Tag (C-Term)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	SureVector Thioredoxin	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Expression Tag (C-Term)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureVector LacZ E. coli Control (C-term)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.	
SureVector Enzyme Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.	
10X SureVector Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.	
dNTP Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.	
DpnI	Under normal conditions of storage and use, hazardous decomposition products should not be produced.	

SureVector E. coli C-terminal Tag kit, 5 rxn, Part Number G7518E

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
<b>5X SureSolution</b> Dimethyl sulfoxide	LD50 Dermal LD50 Oral	Rat Rat	40000 mg/kg 14500 mg/kg	- -
<b>SureVector Enzyme Mix</b> Poly(oxy-1,2-ethanediyl), . alpha.-[(1,1,3, 3-tetramethylbutyl)phenyl]-. omega.-hydroxy-	LD50 Oral	Rat	2800 mg/kg	-
<b>10X SureVector Buffer</b> Polyoxyethylene octyl phenyl ether	LD50 Oral	Rat	1800 mg/kg	-
<b>Dpnl</b> Sodium chloride	LD50 Oral	Rat	3000 mg/kg	-

#### Acute toxicity estimates

Route	ATE value
<b>10X SureVector Buffer</b> Oral	180000 mg/kg

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
<b>5X SureSolution</b> Dimethyl sulfoxide	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Eyes - Mild irritant	Rabbit	-	100 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	100 milligrams	-
<b>SureVector Enzyme Mix</b> Poly(oxy-1,2-ethanediyl), . alpha.-[(1,1,3, 3-tetramethylbutyl)phenyl]-. omega.-hydroxy-	Eyes - Severe irritant	Rabbit	-	1 Percent	-
<b>10X SureVector Buffer</b> Polyoxyethylene octyl phenyl ether	Eyes - Moderate irritant	Rabbit	-	24 hours 10 microliters	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 microliters	-
<b>Dpnl</b> Sodium chloride	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	10 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

#### Sensitiser

**Conclusion/Summary** : Not available.

#### Specific target organ toxicity (single exposure)

**Date of issue/Date of revision** : 31/05/2017

SureVector *E. coli* C-terminal Tag kit, 5 rxn, Part Number G7518E

## SECTION 11: Toxicological information

Product/ingredient name	Category	Route of exposure	Target organs
<b>10X SureVector Buffer</b> 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	Category 3	Not applicable.	Respiratory tract irritation

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

### Information on likely routes of exposure

5X SureSolution	Routes of entry anticipated: Oral, Dermal, Inhalation.
SureVector AmpR Selectable Marker	Not available.
SureVector pUC Origin	Not available.
SureVector XP1 Linker	Not available.
SureVector LacI Repressor	Not available.
SureVector T7-HIS6 <i>E. coli</i> Promoter	Not available.
SureVector T7 <i>E. coli</i> Promoter	Not available.
SureVector CBP Expression Tag (C-Term)	Not available.
SureVector SBP Expression Tag (C-Term)	Not available.
SureVector Thioredoxin Expression Tag (C-Term)	Not available.
SureVector LacZ <i>E. coli</i> Control (C-term)	Not available.
SureVector Enzyme Mix	Routes of entry anticipated: Oral, Dermal, Inhalation.
10X SureVector Buffer	Routes of entry anticipated: Oral, Dermal, Inhalation.
dNTP Mix	Not available.
DpnI	Routes of entry anticipated: Oral, Dermal, Inhalation.

### Potential acute health effects

#### Inhalation

5X SureSolution	No known significant effects or critical hazards.
SureVector AmpR Selectable Marker	No known significant effects or critical hazards.
SureVector pUC Origin	No known significant effects or critical hazards.
SureVector XP1 Linker	No known significant effects or critical hazards.
SureVector LacI Repressor	No known significant effects or critical hazards.
SureVector T7-HIS6 <i>E. coli</i> Promoter	No known significant effects or critical hazards.
SureVector T7 <i>E. coli</i> Promoter	No known significant effects or critical hazards.
SureVector CBP Expression Tag (C-Term)	No known significant effects or critical hazards.
SureVector SBP Expression Tag (C-Term)	No known significant effects or critical hazards.
SureVector Thioredoxin Expression Tag (C-Term)	No known significant effects or critical hazards.
SureVector LacZ <i>E. coli</i> Control (C-term)	No known significant effects or critical hazards.
SureVector Enzyme Mix	No known significant effects or critical hazards.
10X SureVector Buffer	No known significant effects or critical hazards.
dNTP Mix	No known significant effects or critical hazards.
DpnI	No known significant effects or critical hazards.

**SureVector E. coli C-terminal Tag kit, 5 rxn, Part Number G7518E**

## SECTION 11: Toxicological information

<b>Ingestion</b>	: 5X SureSolution	No known significant effects or critical hazards.
	SureVector AmpR	No known significant effects or critical hazards.
	Selectable Marker	
	SureVector pUC Origin	No known significant effects or critical hazards.
	SureVector XP1 Linker	No known significant effects or critical hazards.
	SureVector LacI	No known significant effects or critical hazards.
	Repressor	
	SureVector T7-HIS6 E. coli Promoter	No known significant effects or critical hazards.
	SureVector T7 E. coli Promoter	No known significant effects or critical hazards.
	SureVector CBP	No known significant effects or critical hazards.
	Expression Tag (C-Term)	
	SureVector SBP	No known significant effects or critical hazards.
	Expression Tag (C-Term)	
	SureVector Thioredoxin	No known significant effects or critical hazards.
	Expression Tag (C-Term)	
	SureVector LacZ E. coli Control (C-term)	No known significant effects or critical hazards.
	SureVector Enzyme Mix	No known significant effects or critical hazards.
	10X SureVector Buffer	No known significant effects or critical hazards.
	dNTP Mix	No known significant effects or critical hazards.
	DpnI	No known significant effects or critical hazards.
<b>Skin contact</b>	: 5X SureSolution	No known significant effects or critical hazards.
	SureVector AmpR	No known significant effects or critical hazards.
	Selectable Marker	
	SureVector pUC Origin	No known significant effects or critical hazards.
	SureVector XP1 Linker	No known significant effects or critical hazards.
	SureVector LacI	No known significant effects or critical hazards.
	Repressor	
	SureVector T7-HIS6 E. coli Promoter	No known significant effects or critical hazards.
	SureVector T7 E. coli Promoter	No known significant effects or critical hazards.
	SureVector CBP	No known significant effects or critical hazards.
	Expression Tag (C-Term)	
	SureVector SBP	No known significant effects or critical hazards.
	Expression Tag (C-Term)	
	SureVector Thioredoxin	No known significant effects or critical hazards.
	Expression Tag (C-Term)	
	SureVector LacZ E. coli Control (C-term)	No known significant effects or critical hazards.
	SureVector Enzyme Mix	No known significant effects or critical hazards.
	10X SureVector Buffer	No known significant effects or critical hazards.
	dNTP Mix	No known significant effects or critical hazards.
	DpnI	No known significant effects or critical hazards.
<b>Eye contact</b>	: 5X SureSolution	No known significant effects or critical hazards.
	SureVector AmpR	No known significant effects or critical hazards.
	Selectable Marker	
	SureVector pUC Origin	No known significant effects or critical hazards.
	SureVector XP1 Linker	No known significant effects or critical hazards.
	SureVector LacI	No known significant effects or critical hazards.
	Repressor	
	SureVector T7-HIS6 E. coli Promoter	No known significant effects or critical hazards.
	SureVector T7 E. coli Promoter	No known significant effects or critical hazards.
	SureVector CBP	No known significant effects or critical hazards.
	Expression Tag (C-Term)	
	SureVector SBP	No known significant effects or critical hazards.

**SureVector E. coli C-terminal Tag kit, 5 rxn, Part Number G7518E**

## SECTION 11: Toxicological information

Expression Tag (C-Term)	
SureVector Thioredoxin	No known significant effects or critical hazards.
Expression Tag (C-Term)	
SureVector LacZ E. coli Control (C-term)	No known significant effects or critical hazards.
SureVector Enzyme Mix	No known significant effects or critical hazards.
10X SureVector Buffer	Causes serious eye irritation.
dNTP Mix	No known significant effects or critical hazards.
DpnI	No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

<b>Inhalation</b>	:	5X SureSolution	No specific data.		
		SureVector AmpR	No specific data.		
		Selectable Marker			
		SureVector pUC Origin	No specific data.		
		SureVector XP1 Linker	No specific data.		
		SureVector LacI	No specific data.		
		Repressor			
		SureVector T7-HIS6 E. coli Promoter	No specific data.		
		SureVector T7 E. coli Promoter	No specific data.		
		SureVector CBP	No specific data.		
		Expression Tag (C-Term)			
		SureVector SBP	No specific data.		
		Expression Tag (C-Term)			
		SureVector Thioredoxin	No specific data.		
		Expression Tag (C-Term)			
		SureVector LacZ E. coli Control (C-term)	No specific data.		
		SureVector Enzyme Mix	No specific data.		
		10X SureVector Buffer	No specific data.		
		dNTP Mix	No specific data.		
		DpnI	No specific data.		
		<b>Ingestion</b>	:	5X SureSolution	No specific data.
				SureVector AmpR	No specific data.
				Selectable Marker	
SureVector pUC Origin	No specific data.				
SureVector XP1 Linker	No specific data.				
SureVector LacI	No specific data.				
Repressor					
SureVector T7-HIS6 E. coli Promoter	No specific data.				
SureVector T7 E. coli Promoter	No specific data.				
SureVector CBP	No specific data.				
Expression Tag (C-Term)					
SureVector SBP	No specific data.				
Expression Tag (C-Term)					
SureVector Thioredoxin	No specific data.				
Expression Tag (C-Term)					
SureVector LacZ E. coli Control (C-term)	No specific data.				
SureVector Enzyme Mix	No specific data.				
10X SureVector Buffer	No specific data.				
dNTP Mix	No specific data.				
DpnI	No specific data.				



**SureVector E. coli C-terminal Tag kit, 5 rxn, Part Number G7518E**

## SECTION 11: Toxicological information

<b>Skin contact</b>	: 5X SureSolution	No specific data.	
	SureVector AmpR	No specific data.	
	Selectable Marker		
	SureVector pUC Origin	No specific data.	
	SureVector XP1 Linker	No specific data.	
	SureVector LacI	No specific data.	
	Repressor		
	SureVector T7-HIS6 E. coli Promoter	No specific data.	
	SureVector T7 E. coli Promoter	No specific data.	
	SureVector CBP	No specific data.	
	Expression Tag (C-Term)		
	SureVector SBP	No specific data.	
	Expression Tag (C-Term)		
	SureVector Thioredoxin	No specific data.	
	Expression Tag (C-Term)		
		SureVector LacZ E. coli Control (C-term)	No specific data.
		SureVector Enzyme Mix	No specific data.
		10X SureVector Buffer	No specific data.
		dNTP Mix	No specific data.
		DpnI	No specific data.
	<b>Eye contact</b>	: 5X SureSolution	No specific data.
		SureVector AmpR	No specific data.
Selectable Marker			
SureVector pUC Origin		No specific data.	
SureVector XP1 Linker		No specific data.	
SureVector LacI		No specific data.	
Repressor			
SureVector T7-HIS6 E. coli Promoter		No specific data.	
SureVector T7 E. coli Promoter		No specific data.	
SureVector CBP		No specific data.	
Expression Tag (C-Term)			
SureVector SBP		No specific data.	
Expression Tag (C-Term)			
SureVector Thioredoxin		No specific data.	
Expression Tag (C-Term)			
		SureVector LacZ E. coli Control (C-term)	No specific data.
		SureVector Enzyme Mix	No specific data.
		10X SureVector Buffer	Adverse symptoms may include the following: pain or irritation watering redness
		dNTP Mix	No specific data.
		DpnI	No specific data.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.

**Date of issue/Date of revision** : 31/05/2017

49/56

SureVector *E. coli* C-terminal Tag kit, 5 rxn, Part Number G7518E

## SECTION 11: Toxicological information

**Potential delayed effects** : Not available.

### Potential chronic health effects

<b>General</b>	: 5X SureSolution SureVector AmpR Selectable Marker SureVector pUC Origin SureVector XP1 Linker SureVector LacI Repressor SureVector T7-HIS6 <i>E. coli</i> Promoter SureVector T7 <i>E. coli</i> Promoter SureVector CBP Expression Tag (C-Term) SureVector SBP Expression Tag (C-Term) SureVector Thioredoxin Expression Tag (C-Term)  SureVector LacZ <i>E. coli</i> Control (C-term) SureVector Enzyme Mix 10X SureVector Buffer dNTP Mix DpnI	No known significant effects or critical hazards. No known significant effects or critical hazards.  No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.  No known significant effects or critical hazards.  No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.  No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Carcinogenicity</b>	: 5X SureSolution SureVector AmpR Selectable Marker SureVector pUC Origin SureVector XP1 Linker SureVector LacI Repressor SureVector T7-HIS6 <i>E. coli</i> Promoter SureVector T7 <i>E. coli</i> Promoter SureVector CBP Expression Tag (C-Term) SureVector SBP Expression Tag (C-Term) SureVector Thioredoxin Expression Tag (C-Term)  SureVector LacZ <i>E. coli</i> Control (C-term) SureVector Enzyme Mix 10X SureVector Buffer dNTP Mix DpnI	No known significant effects or critical hazards. No known significant effects or critical hazards.  No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.  No known significant effects or critical hazards.  No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.  No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Mutagenicity</b>	: 5X SureSolution SureVector AmpR Selectable Marker SureVector pUC Origin SureVector XP1 Linker SureVector LacI Repressor SureVector T7-HIS6 <i>E. coli</i> Promoter SureVector T7 <i>E. coli</i>	No known significant effects or critical hazards. No known significant effects or critical hazards.  No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.  No known significant effects or critical hazards.  No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

SureVector *E. coli* C-terminal Tag kit, 5 rxn, Part Number G7518E

## SECTION 11: Toxicological information

	Promoter	
	SureVector CBP	No known significant effects or critical hazards.
	Expression Tag (C-Term)	
	SureVector SBP	No known significant effects or critical hazards.
	Expression Tag (C-Term)	
	SureVector Thioredoxin	No known significant effects or critical hazards.
	Expression Tag (C-Term)	
	SureVector LacZ <i>E. coli</i>	No known significant effects or critical hazards.
	Control (C-term)	
	SureVector Enzyme Mix	No known significant effects or critical hazards.
	10X SureVector Buffer	No known significant effects or critical hazards.
	dNTP Mix	No known significant effects or critical hazards.
	DpnI	No known significant effects or critical hazards.
<b>Teratogenicity</b>	: 5X SureSolution	No known significant effects or critical hazards.
	SureVector AmpR	No known significant effects or critical hazards.
	Selectable Marker	
	SureVector pUC Origin	No known significant effects or critical hazards.
	SureVector XP1 Linker	No known significant effects or critical hazards.
	SureVector LacI	No known significant effects or critical hazards.
	Repressor	
	SureVector T7-HIS6 <i>E. coli</i>	No known significant effects or critical hazards.
	Promoter	
	SureVector T7 <i>E. coli</i>	No known significant effects or critical hazards.
	Promoter	
	SureVector CBP	No known significant effects or critical hazards.
	Expression Tag (C-Term)	
	SureVector SBP	No known significant effects or critical hazards.
	Expression Tag (C-Term)	
	SureVector Thioredoxin	No known significant effects or critical hazards.
	Expression Tag (C-Term)	
	SureVector LacZ <i>E. coli</i>	No known significant effects or critical hazards.
	Control (C-term)	
	SureVector Enzyme Mix	No known significant effects or critical hazards.
	10X SureVector Buffer	No known significant effects or critical hazards.
	dNTP Mix	No known significant effects or critical hazards.
	DpnI	No known significant effects or critical hazards.
<b>Developmental effects</b>	: 5X SureSolution	No known significant effects or critical hazards.
	SureVector AmpR	No known significant effects or critical hazards.
	Selectable Marker	
	SureVector pUC Origin	No known significant effects or critical hazards.
	SureVector XP1 Linker	No known significant effects or critical hazards.
	SureVector LacI	No known significant effects or critical hazards.
	Repressor	
	SureVector T7-HIS6 <i>E. coli</i>	No known significant effects or critical hazards.
	Promoter	
	SureVector T7 <i>E. coli</i>	No known significant effects or critical hazards.
	Promoter	
	SureVector CBP	No known significant effects or critical hazards.
	Expression Tag (C-Term)	
	SureVector SBP	No known significant effects or critical hazards.
	Expression Tag (C-Term)	
	SureVector Thioredoxin	No known significant effects or critical hazards.
	Expression Tag (C-Term)	
	SureVector LacZ <i>E. coli</i>	No known significant effects or critical hazards.
	Control (C-term)	
	SureVector Enzyme Mix	No known significant effects or critical hazards.
	10X SureVector Buffer	No known significant effects or critical hazards.
	dNTP Mix	No known significant effects or critical hazards.
	DpnI	No known significant effects or critical hazards.

SureVector E. coli C-terminal Tag kit, 5 rxn, Part Number G7518E

## SECTION 11: Toxicological information

<b>Fertility effects</b>	: 5X SureSolution	No known significant effects or critical hazards.
	SureVector AmpR	No known significant effects or critical hazards.
	Selectable Marker	
	SureVector pUC Origin	No known significant effects or critical hazards.
	SureVector XP1 Linker	No known significant effects or critical hazards.
	SureVector LacI	No known significant effects or critical hazards.
	Repressor	
	SureVector T7-HIS6 E. coli Promoter	No known significant effects or critical hazards.
	SureVector T7 E. coli Promoter	No known significant effects or critical hazards.
	SureVector CBP	No known significant effects or critical hazards.
	Expression Tag (C-Term)	
	SureVector SBP	No known significant effects or critical hazards.
	Expression Tag (C-Term)	
	SureVector Thioredoxin	No known significant effects or critical hazards.
	Expression Tag (C-Term)	
	SureVector LacZ E. coli Control (C-term)	No known significant effects or critical hazards.
SureVector Enzyme Mix	No known significant effects or critical hazards.	
10X SureVector Buffer	No known significant effects or critical hazards.	
dNTP Mix	No known significant effects or critical hazards.	
Dpnl	No known significant effects or critical hazards.	

## SECTION 12: Ecological information

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
<b>5X SureSolution</b> Dimethyl sulfoxide	Acute LC50 25000 ppm Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 34000000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 100 µl/L Marine water	Algae - Ulva lactuca	72 hours
<b>SureVector Enzyme Mix</b> Poly(oxy-1,2-ethanediyl), . alpha.-(1,1,3,3-tetramethylbutyl)phenyl]-. omega.-hydroxy-	Acute EC50 210 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute LC50 10800 µg/l Marine water	Crustaceans - Pandalus montagui - Adult	48 hours
	Acute LC50 8600 to 9800 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 7200 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
<b>10X SureVector Buffer</b> Polyoxyethylene octyl phenyl ether	Acute LC50 5.85 mg/l Fresh water	Crustaceans - Ceriodaphnia rigaudi - Neonate	48 hours
	Acute LC50 11.2 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 4500 µg/l Fresh water	Fish - Pimephales promelas	96 hours
<b>Dpnl</b> Sodium chloride	Acute EC50 2430000 µg/l Fresh water	Algae - Navicula seminulum	96 hours
	Acute EC50 28.85 mg/dm3 Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 519.6 mg/l Fresh water	Crustaceans - Cypris subglobosa	48 hours
	Acute IC50 6.87 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute LC50 1.56 g/L Fresh water	Daphnia - Daphnia magna	48 hours

SureVector E. coli C-terminal Tag kit, 5 rxn, Part Number G7518E

## SECTION 12: Ecological information

	Acute LC50 1000000 µg/l Fresh water Chronic LC10 781 mg/l Fresh water	Fish - Morone saxatilis - Larvae Crustaceans - Hyalella azteca - Juvenile (Fledgling, Hatchling, Weanling)	96 hours 3 weeks
	Chronic NOEC 6 g/L Fresh water Chronic NOEC 0.314 g/L Fresh water Chronic NOEC 100 mg/l Fresh water	Aquatic plants - Lemna minor Daphnia - Daphnia pulex Fish - Gambusia holbrooki - Adult	96 hours 21 days 8 weeks

### 12.2 Persistence and degradability

Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
<b>10X SureVector Buffer</b> Polyoxyethylene octyl phenyl ether	-	-	Readily

### 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
<b>5X SureSolution</b> Dimethyl sulfoxide	-1.35	3.16	low
<b>SureVector Enzyme Mix</b> Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-	3.77	78.67	low
<b>10X SureVector Buffer</b> Polyoxyethylene octyl phenyl ether	4.86	-	high

### 12.4 Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Mobility** : Not available.

### 12.5 Results of PBT and vPvB assessment

**PBT** : Not applicable.

**vPvB** : Not applicable.

**12.6 Other adverse effects** : No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** : The classification of the product may meet the criteria for a hazardous waste.

SureVector E. coli C-terminal Tag kit, 5 rxn, Part Number G7518E

## SECTION 13: Disposal considerations

### Packaging

- Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
- Special precautions** : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

ADR/RID / IMDG / IATA : Not regulated.

**14.6 Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** : Not available.

## SECTION 15: Regulatory information

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
[EU Regulation \(EC\) No. 1907/2006 \(REACH\)](#)

[Annex XIV - List of substances subject to authorisation](#)

### Annex XIV

None of the components are listed.

### Substances of very high concern

Ingredient name	Intrinsic property	Status	Reference number	Date of revision
<b>SureVector Enzyme Mix</b> Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-	Substance of equivalent concern for environment	Recommended	ED/169/2012	2/10/2014
<b>10X SureVector Buffer</b> Polyoxyethylene octyl phenyl ether	Substance of equivalent concern for environment	Recommended	ED/169/2012	2/10/2014

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** :

5X SureSolution	Not applicable.
SureVector AmpR	Not applicable.
Selectable Marker	
SureVector pUC Origin	Not applicable.
SureVector XP1 Linker	Not applicable.
SureVector LacI Repressor	Not applicable.
SureVector T7-HIS6 E. coli Promoter	Not applicable.
SureVector T7 E. coli Promoter	Not applicable.
SureVector CBP Expression Tag (C-Term)	Not applicable.
SureVector SBP Expression Tag (C-Term)	Not applicable.
SureVector Thioredoxin Expression Tag (C-Term)	Not applicable.
SureVector LacZ E. coli	Not applicable.

**Date of issue/Date of revision** : 31/05/2017

54/56

**SureVector E. coli C-terminal Tag kit, 5 rxn, Part Number G7518E**

## SECTION 15: Regulatory information

Control (C-term)	
SureVector Enzyme Mix	Not applicable.
10X SureVector Buffer	Not applicable.
dNTP Mix	Not applicable.
Dpnl	Not applicable.

### Other EU regulations

**Industrial emissions (integrated pollution prevention and control) - Air** : Listed

### Ozone depleting substances (1005/2009/EU)

Not listed.

### Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

### Seveso Directive

This product is not controlled under the Seveso Directive.

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol (Annexes A, B, C, E)

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### Inventory list

<b>Australia</b>	: Not determined.
<b>Canada</b>	: Not determined.
<b>China</b>	: All components are listed or exempted.
<b>Europe</b>	: All components are listed or exempted.
<b>Japan</b>	: <b>Japan inventory (ENCS)</b> : Not determined. <b>Japan inventory (ISHL)</b> : Not determined.
<b>Malaysia</b>	: Not determined.
<b>New Zealand</b>	: Not determined.
<b>Philippines</b>	: Not determined.
<b>Republic of Korea</b>	: Not determined.
<b>Taiwan</b>	: All components are listed or exempted.
<b>Thailand</b>	: Not determined.
<b>Turkey</b>	: Not determined.
<b>United States</b>	: All components are listed or exempted.
<b>Viet Nam</b>	: Not determined.

**15.2 Chemical safety assessment** : This product contains substances for which Chemical Safety Assessments might still be required.

**SureVector E. coli C-terminal Tag kit, 5 rxn, Part Number G7518E**

## SECTION 16: Other information

✔ Indicates information that has changed from previously issued version.

### Abbreviations and acronyms

: ATE = Acute Toxicity Estimate  
 CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
 DNEL = Derived No Effect Level  
 EUH statement = CLP-specific Hazard statement  
 PNEC = Predicted No Effect Concentration  
 RRN = REACH Registration Number

### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
<b>10X SureVector Buffer</b> Eye Irrit. 2, H319	Calculation method

### Full text of abbreviated H statements

<b>SureVector Enzyme Mix</b> H315 H318 H411  <b>10X SureVector Buffer</b> H302 H315 H318 H319 H335 H411  <b>Dpnl</b> H319	Causes skin irritation. Causes serious eye damage. Toxic to aquatic life with long lasting effects.  Harmful if swallowed. Causes skin irritation. Causes serious eye damage. Causes serious eye irritation. May cause respiratory irritation. Toxic to aquatic life with long lasting effects.  Causes serious eye irritation.
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### Full text of classifications [CLP/GHS]

<b>SureVector Enzyme Mix</b> Aquatic Chronic 2, H411 Eye Dam. 1, H318 Skin Irrit. 2, H315  <b>10X SureVector Buffer</b> Acute Tox. 4, H302 Aquatic Chronic 2, H411 Eye Dam. 1, H318 Eye Irrit. 2, H319 Skin Irrit. 2, H315 STOT SE 3, H335  <b>Dpnl</b> Eye Irrit. 2, H319	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SKIN CORROSION/IRRITATION - Category 2  ACUTE TOXICITY (oral) - Category 4 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3  SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
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**Date of issue/ Date of revision** : 31/05/2017

**Date of previous issue** : No previous validation.

**Version** : 1

### Notice to reader

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