

SAFETY DATA SHEET



SureVector Core Kit, Part Number G7514A

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

1.1 Product identifier

Product name	: SureVector Core Kit, Part Number G7514A
Part No. (Kit)	: G7514A
Part No.	: 5X SureSolution 5190-8625
	SureVector AmpR 5190-8088
	Selectable Marker
	SureVector KanR 5190-8089
	Selectable Marker
	SureVector ChIR 5190-8090
	Selectable Marker
	SureVector pUC Origin 5190-8091
	SureVector p15a Origin 5190-8092
	SureVector pBR322 5190-8093
	Origin
	SureVector XP1 Linker 5190-8094
	SureVector yARS 5190-8095
	SureVector XP2 Linker 5190-8096
	SureVector NeoR 5190-8097
	Mammalian Selectable Marker
	SureVector LEU2 Yeast 5190-8098
	Selectable Marker
	SureVector LacI 5190-8099
	Repressor
	SureVector T7-HIS6 E. 5190-8100
	coli Promoter
	SureVector CMV-HIS6 5190-8101
	Mammalian Promoter
	SureVector GAL1-HIS6 5190-8102
	Yeast Promoter
	SureVector LacZ Control 5190-8103
	(N-term)
	SureVector Enzyme Mix 5190-8621
	10X SureVector Buffer 5190-8622
	dNTP Mix 200518-56
	DpnI 5190-8624
	XL1-Blue 200236-41
	supercompetent cells
	pUC 18 DNA Control 200231-42
	Plasmid
	Beta Mercaptoethanol 210200-43

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	0.03 ml (15 reactions)
SureVector KanR Selectable Marker	0.03 ml (15 reactions)
SureVector ChIR Selectable Marker	0.03 ml (15 reactions)
SureVector pUC Origin	0.03 ml (15 reactions)
SureVector p15a Origin	0.03 ml (15 reactions)
SureVector pBR322 Origin	0.03 ml (15 reactions)
SureVector XP1 Linker	0.03 ml (15 reactions)
SureVector yARS	0.03 ml (15 reactions)
SureVector XP2 Linker	0.03 ml (15 reactions)
SureVector NeoR Mammalian Selectable Marker	0.03 ml (15 reactions)

Date of issue/Date of revision : 25/04/2017

SureVector Core Kit, Part Number G7514A

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SureVector LEU2 Yeast Selectable Marker	0.03 ml (15 reactions)
SureVector LacI Repressor	0.03 ml (15 reactions)
SureVector T7-HIS6 E. coli Promoter	0.03 ml (15 reactions)
SureVector CMV-HIS6 Mammalian Promoter	0.03 ml (15 reactions)
SureVector GAL1-HIS6 Yeast Promoter	0.03 ml (15 reactions)
SureVector LacZ Control (N-term)	0.03 ml (15 reactions)
SureVector Enzyme Mix	0.03 ml (15 reactions)
10X SureVector Buffer	0.03 ml (15 reactions)
dNTP Mix	0.03 ml
DpnI	0.015 ml (15 reactions)
XL1-Blue supercompetent cells	5 x 0.2 ml
pUC 18 DNA Control Plasmid	0.01 ml (0.1 ng/µl)
Beta Mercaptoethanol	0.025 ml (25 µl 1.42M)

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

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

Product definition	: 5X SureSolution	Mono-constituent substance
	SureVector AmpR Selectable Marker	Mixture
	SureVector KanR Selectable Marker	Mixture
	SureVector ChIR Selectable Marker	Mixture
	SureVector pUC Origin	Mixture
	SureVector p15a Origin	Mixture
	SureVector pBR322 Origin	Mixture
	SureVector XP1 Linker	Mixture
	SureVector yARS	Mixture
	SureVector XP2 Linker	Mixture
	SureVector NeoR Mammalian Selectable Marker	Mixture
	SureVector LEU2 Yeast Selectable Marker	Mixture
	SureVector LacI Repressor	Mixture
	SureVector T7-HIS6 E. coli Promoter	Mixture
	SureVector CMV-HIS6 Mammalian Promoter	Mixture
	SureVector GAL1-HIS6 Yeast Promoter	Mixture
	SureVector LacZ Control	Mixture

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(N-term)	
SureVector Enzyme Mix	Mixture
10X SureVector Buffer	Mixture
dNTP Mix	Mixture
DpnI	Mixture
XL1-Blue	Mixture
supercompetent cells	
pUC 18 DNA Control	Mixture
Plasmid	
Beta Mercaptoethanol	Mixture

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

10X SureVector Buffer

H319 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

Beta Mercaptoethanol

H312 ACUTE TOXICITY (dermal) - Category 4
 H332 ACUTE TOXICITY (inhalation) - Category 4
 H315 SKIN CORROSION/IRRITATION - Category 2
 H318 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
 H317 SKIN SENSITISATION - Category 1
 H412 LONG-TERM AQUATIC HAZARD - Category 3

Ingredients of unknown toxicity : 10X SureVector Buffer Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 3.2%
 dNTP Mix Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 5.7%

Ingredients of unknown ecotoxicity : 10X SureVector Buffer Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 3.2%
 dNTP Mix Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 5.7%

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



Signal word

: 5X SureSolution No signal word.
 SureVector AmpR No signal word.
 Selectable Marker
 SureVector KanR No signal word.
 Selectable Marker
 SureVector ChIR No signal word.
 Selectable Marker
 SureVector pUC Origin No signal word.
 SureVector p15a Origin No signal word.
 SureVector pBR322 No signal word.
 Origin
 SureVector XP1 Linker No signal word.
 SureVector yARS No signal word.
 SureVector XP2 Linker No signal word.
 SureVector NeoR No signal word.
 Mammalian Selectable Marker
 SureVector LEU2 Yeast No signal word.
 Selectable Marker
 SureVector LacI No signal word.
 Repressor
 SureVector T7-HIS6 E. coli Promoter No signal word.

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	SureVector CMV-HIS6 Mammalian Promoter	No signal word.
	SureVector GAL1-HIS6 Yeast Promoter	No signal word.
	SureVector LacZ Control (N-term)	No signal word.
	SureVector Enzyme Mix	No signal word.
	10X SureVector Buffer	Warning
	dNTP Mix	No signal word.
	DpnI	No signal word.
	XL1-Blue supercompetent cells	No signal word.
	pUC 18 DNA Control Plasmid	No signal word.
	Beta Mercaptoethanol	Danger
Hazard statements	: 5X SureSolution	No known significant effects or critical hazards.
	SureVector AmpR Selectable Marker	No known significant effects or critical hazards.
	SureVector KanR Selectable Marker	No known significant effects or critical hazards.
	SureVector ChIR Selectable Marker	No known significant effects or critical hazards.
	SureVector pUC Origin	No known significant effects or critical hazards.
	SureVector p15a Origin	No known significant effects or critical hazards.
	SureVector pBR322 Origin	No known significant effects or critical hazards.
	SureVector XP1 Linker	No known significant effects or critical hazards.
	SureVector yARS	No known significant effects or critical hazards.
	SureVector XP2 Linker	No known significant effects or critical hazards.
	SureVector NeoR Mammalian Selectable Marker	No known significant effects or critical hazards.
	SureVector LEU2 Yeast Selectable Marker	No known significant effects or critical hazards.
	SureVector LacI Repressor	No known significant effects or critical hazards.
	SureVector T7-HIS6 E. coli Promoter	No known significant effects or critical hazards.
	SureVector CMV-HIS6 Mammalian Promoter	No known significant effects or critical hazards.
	SureVector GAL1-HIS6 Yeast Promoter	No known significant effects or critical hazards.
	SureVector LacZ Control (N-term)	No known significant effects or critical hazards.
	SureVector Enzyme Mix	No known significant effects or critical hazards.
	10X SureVector Buffer	GHS07 - Causes serious eye irritation.
	dNTP Mix	No known significant effects or critical hazards.
	DpnI	No known significant effects or critical hazards.
	XL1-Blue supercompetent cells	No known significant effects or critical hazards.
	pUC 18 DNA Control Plasmid	No known significant effects or critical hazards.
	Beta Mercaptoethanol	GHS05 - Causes serious eye damage. GHS07 - Harmful in contact with skin. Harmful if inhaled. Causes skin irritation. May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.

Precautionary statements

SECTION 2: Hazards identification

SureVector CMV-HIS6 Mammalian Promoter	Not applicable.
SureVector GAL1-HIS6 Yeast Promoter	Not applicable.
SureVector LacZ Control (N-term)	Not applicable.
SureVector Enzyme Mix 10X SureVector Buffer	Not applicable. 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.
DpnI	Not applicable.
XL1-Blue supercompetent cells	Not applicable.
pUC 18 DNA Control Plasmid	Not applicable.
Beta Mercaptoethanol	P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305 + P310 - IF IN EYES: Immediately call a POISON CENTER or physician.
Storage : 5X SureSolution	Not applicable.
SureVector AmpR Selectable Marker	Not applicable.
SureVector KanR Selectable Marker	Not applicable.
SureVector ChIR Selectable Marker	Not applicable.
SureVector pUC Origin	Not applicable.
SureVector p15a Origin	Not applicable.
SureVector pBR322 Origin	Not applicable.
SureVector XP1 Linker	Not applicable.
SureVector yARS	Not applicable.
SureVector XP2 Linker	Not applicable.
SureVector NeoR	Not applicable.
Mammalian Selectable Marker	
SureVector LEU2 Yeast Selectable Marker	Not applicable.
SureVector LacI Repressor	Not applicable.
SureVector T7-HIS6 E. coli Promoter	Not applicable.
SureVector CMV-HIS6 Mammalian Promoter	Not applicable.
SureVector GAL1-HIS6 Yeast Promoter	Not applicable.
SureVector LacZ Control (N-term)	Not applicable.
SureVector Enzyme Mix 10X SureVector Buffer	Not applicable.
dNTP Mix	Not applicable.
DpnI	Not applicable.
XL1-Blue supercompetent cells	Not applicable.
pUC 18 DNA Control Plasmid	Not applicable.
Beta Mercaptoethanol	Not applicable.

SECTION 2: Hazards identification

coli Promoter	
SureVector CMV-HIS6	Not applicable.
Mammalian Promoter	
SureVector GAL1-HIS6	Not applicable.
Yeast Promoter	
SureVector LacZ Control (N-term)	Not applicable.
SureVector Enzyme Mix	Not applicable.
10X SureVector Buffer	Not applicable.
dNTP Mix	Not applicable.
DpnI	Safety data sheet available on request.
XL1-Blue	Not applicable.
supercompetent cells	
pUC 18 DNA Control Plasmid	Not applicable.
Beta Mercaptoethanol	Not applicable.
5X SureSolution	Not applicable.
SureVector AmpR	Not applicable.
Selectable Marker	
SureVector KanR	Not applicable.
Selectable Marker	
SureVector ChIR	Not applicable.
Selectable Marker	
SureVector pUC Origin	Not applicable.
SureVector p15a Origin	Not applicable.
SureVector pBR322 Origin	Not applicable.
SureVector XP1 Linker	Not applicable.
SureVector yARS	Not applicable.
SureVector XP2 Linker	Not applicable.
SureVector NeoR	Not applicable.
Mammalian Selectable Marker	
SureVector LEU2 Yeast	Not applicable.
Selectable Marker	
SureVector LacI	Not applicable.
Repressor	
SureVector T7-HIS6 E. coli Promoter	Not applicable.
SureVector CMV-HIS6	Not applicable.
Mammalian Promoter	
SureVector GAL1-HIS6	Not applicable.
Yeast Promoter	
SureVector LacZ Control (N-term)	Not applicable.
SureVector Enzyme Mix	Not applicable.
10X SureVector Buffer	Not applicable.
dNTP Mix	Not applicable.
DpnI	Not applicable.
XL1-Blue	Not applicable.
supercompetent cells	
pUC 18 DNA Control Plasmid	Not applicable.
Beta Mercaptoethanol	Not applicable.

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

Special packaging requirements

Tactile warning of danger	:	5X SureSolution	Not applicable.
		SureVector AmpR	Not applicable.
		Selectable Marker	
		SureVector KanR	Not applicable.
		Selectable Marker	
		SureVector ChIR	Not applicable.
		Selectable Marker	
		SureVector pUC Origin	Not applicable.
		SureVector p15a Origin	Not applicable.

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SureVector pBR322 Origin	Not applicable.
SureVector XP1 Linker	Not applicable.
SureVector yARS	Not applicable.
SureVector XP2 Linker	Not applicable.
SureVector NeoR	Not applicable.
Mammalian Selectable Marker	
SureVector LEU2 Yeast Selectable Marker	Not applicable.
SureVector LacI Repressor	Not applicable.
SureVector T7-HIS6 E. coli Promoter	Not applicable.
SureVector CMV-HIS6 Mammalian Promoter	Not applicable.
SureVector GAL1-HIS6 Yeast Promoter	Not applicable.
SureVector LacZ Control (N-term)	Not applicable.
SureVector Enzyme Mix	Not applicable.
10X SureVector Buffer	Not applicable.
dNTP Mix	Not applicable.
DpnI	Not applicable.
XL1-Blue supercompetent cells	Not applicable.
pUC 18 DNA Control Plasmid	Not applicable.
Beta Mercaptoethanol	Not applicable.

2.3 Other hazards

Other hazards which do not result in classification

: 5X SureSolution	None known.
SureVector AmpR Selectable Marker	None known.
SureVector KanR Selectable Marker	None known.
SureVector ChIR Selectable Marker	None known.
SureVector pUC Origin	None known.
SureVector p15a Origin	None known.
SureVector pBR322 Origin	None known.
SureVector XP1 Linker	None known.
SureVector yARS	None known.
SureVector XP2 Linker	None known.
SureVector NeoR	None known.
Mammalian Selectable Marker	
SureVector LEU2 Yeast Selectable Marker	None known.
SureVector LacI Repressor	None known.
SureVector T7-HIS6 E. coli Promoter	None known.
SureVector CMV-HIS6 Mammalian Promoter	None known.
SureVector GAL1-HIS6 Yeast Promoter	None known.
SureVector LacZ Control (N-term)	None known.
SureVector Enzyme Mix	None known.
10X SureVector Buffer	None known.
dNTP Mix	None known.
DpnI	None known.

SECTION 2: Hazards identification

XL1-Blue supercompetent cells	None known.
pUC 18 DNA Control Plasmid	None known.
Beta Mercaptoethanol	None known.

SECTION 3: Composition/information on ingredients

3.1 Substances	:	5X SureSolution	Mono-constituent substance
		SureVector AmpR Selectable Marker	Mixture
		SureVector KanR Selectable Marker	Mixture
		SureVector ChIR Selectable Marker	Mixture
		SureVector pUC Origin	Mixture
		SureVector p15a Origin	Mixture
		SureVector pBR322 Origin	Mixture
		SureVector XP1 Linker	Mixture
		SureVector yARS	Mixture
		SureVector XP2 Linker	Mixture
		SureVector NeoR Mammalian Selectable Marker	Mixture
		SureVector LEU2 Yeast Selectable Marker	Mixture
		SureVector LacI Repressor	Mixture
		SureVector T7-HIS6 E. coli Promoter	Mixture
		SureVector CMV-HIS6 Mammalian Promoter	Mixture
		SureVector GAL1-HIS6 Yeast Promoter	Mixture
		SureVector LacZ Control (N-term)	Mixture
		SureVector Enzyme Mix	Mixture
		10X SureVector Buffer	Mixture
		dNTP Mix	Mixture
		DpnI	Mixture
		XL1-Blue supercompetent cells	Mixture
		pUC 18 DNA Control Plasmid	Mixture
		Beta Mercaptoethanol	Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
5X SureSolution Dimethyl sulfoxide	EC: 200-664-3 CAS: 67-68-5	100	Not classified.	[A]
SureVector Enzyme Mix 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]
10X SureVector Buffer 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]
DpnI				

SureVector Core Kit, Part Number G7514A

SECTION 3: Composition/information on ingredients

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]
XL1-Blue supercompetent cells				
Glycerol	EC: 200-289-5 CAS: 56-81-5	≥10 - ≤25	Not classified.	[2]
Sucrose	EC: 200-334-9 CAS: 57-50-1	≤10	Not classified.	[2]
Beta Mercaptoethanol				
2-Mercaptoethanol	EC: 200-464-6 CAS: 60-24-2	≤12	Acute Tox. 3, H301 Acute Tox. 2, H310 Acute Tox. 2, H330 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Chronic 2, H411 See Section 16 for the full text of the H statements declared above.	[1]

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

Eye contact	: 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 KanR 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 ChIR 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 p15a 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 pBR322 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.

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SureVector yARS	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 XP2 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 NeoR Mammalian 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 LEU2 Yeast 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 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 CMV-HIS6 Mammalian 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 GAL1-HIS6 Yeast 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 LacZ Control (N-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.
XL1-Blue supercompetent cells	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.
pUC 18 DNA Control Plasmid	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.
Beta Mercaptoethanol	Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician.
Inhalation : 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 KanR Selectable Marker	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureVector ChIR Selectable Marker	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

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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 p15a Origin	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureVector pBR322 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 yARS	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureVector XP2 Linker	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureVector NeoR Mammalian Selectable Marker	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureVector LEU2 Yeast Selectable Marker	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 E. coli Promoter	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureVector CMV-HIS6 Mammalian Promoter	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureVector GAL1-HIS6 Yeast Promoter	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureVector LacZ Control (N-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 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.
Dpnl	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

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XL1-Blue supercompetent cells	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
pUC 18 DNA Control Plasmid	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Beta Mercaptoethanol	Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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. 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.
Skin contact	
: 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 KanR Selectable Marker	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureVector ChIR 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 p15a Origin	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureVector pBR322 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 yARS	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureVector XP2 Linker	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureVector NeoR Mammalian Selectable Marker	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureVector LEU2 Yeast Selectable Marker	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 CMV-HIS6 Mammalian Promoter	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureVector GAL1-HIS6	Flush contaminated skin with plenty of water. Remove

SECTION 4: First aid measures

Yeast Promoter	contaminated clothing and shoes. Get medical attention if symptoms occur.
SureVector LacZ Control (N-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.
XL1-Blue supercompetent cells	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
pUC 18 DNA Control Plasmid	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Beta Mercaptoethanol	Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	
: 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 KanR 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 ChIR 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 p15a Origin	Wash out mouth with water. Remove victim to fresh air and

SECTION 4: First aid measures

SureVector pBR322 Origin	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. 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 yARS	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 XP2 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 NeoR Mammalian 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 LEU2 Yeast 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 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 CMV-HIS6 Mammalian 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 GAL1-HIS6 Yeast 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

SECTION 4: First aid measures

SureVector LacZ Control (N-term)	personnel. Get medical attention if symptoms occur. 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 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.
Dpnl	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.
XL1-Blue supercompetent cells	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.
pUC 18 DNA Control Plasmid	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.
Beta Mercaptoethanol	Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an

SECTION 4: First aid measures

Protection of first-aiders : 5X SureSolution

SureVector AmpR

Selectable Marker

SureVector KanR

Selectable Marker

SureVector ChIR

Selectable Marker

SureVector pUC Origin

SureVector p15a Origin

SureVector pBR322

Origin

SureVector XP1 Linker

SureVector yARS

SureVector XP2 Linker

SureVector NeoR

Mammalian Selectable

Marker

SureVector LEU2 Yeast

Selectable Marker

SureVector LacI

Repressor

SureVector T7-HIS6 E.

coli Promoter

SureVector CMV-HIS6

Mammalian Promoter

SureVector GAL1-HIS6

Yeast Promoter

SureVector LacZ Control

(N-term)

SureVector Enzyme Mix

10X SureVector Buffer

dNTP Mix

Dpnl

XL1-Blue

supercompetent cells

pUC 18 DNA Control

Plasmid

Beta Mercaptoethanol

open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

No action shall be taken involving any personal risk or without suitable training.

No action shall be taken involving any personal risk or without suitable training.

No action shall be taken involving any personal risk or without suitable training.

No action shall be taken involving any personal risk or without suitable training.

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No action shall be taken involving any personal risk or without suitable training.

No action shall be taken involving any personal risk or without suitable training.

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

No action shall be taken involving any personal risk or without suitable training.

No action shall be taken involving any personal risk or without suitable training.

No action shall be taken involving any personal risk or without suitable training.

No action shall be taken involving any personal risk or without suitable training.

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

SECTION 4: First aid measures

Eye contact	: 5X SureSolution SureVector AmpR Selectable Marker SureVector KanR Selectable Marker SureVector ChIR Selectable Marker SureVector pUC Origin SureVector p15a Origin SureVector pBR322 Origin SureVector XP1 Linker SureVector yARS SureVector XP2 Linker SureVector NeoR Mammalian Selectable Marker SureVector LEU2 Yeast Selectable Marker SureVector LacI Repressor SureVector T7-HIS6 E. coli Promoter SureVector CMV-HIS6 Mammalian Promoter SureVector GAL1-HIS6 Yeast Promoter SureVector LacZ Control (N-term) SureVector Enzyme Mix 10X SureVector Buffer dNTP Mix DpnI XL1-Blue supercompetent cells pUC 18 DNA Control Plasmid Beta Mercaptoethanol	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. No known significant effects or critical hazards. Causes serious eye irritation. 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. Causes serious eye damage.
Inhalation	: 5X SureSolution SureVector AmpR Selectable Marker SureVector KanR Selectable Marker SureVector ChIR Selectable Marker SureVector pUC Origin SureVector p15a Origin SureVector pBR322 Origin SureVector XP1 Linker SureVector yARS SureVector XP2 Linker SureVector NeoR Mammalian Selectable Marker SureVector LEU2 Yeast Selectable Marker SureVector LacI Repressor SureVector T7-HIS6 E. coli Promoter SureVector CMV-HIS6 Mammalian Promoter SureVector GAL1-HIS6	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. 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.

SECTION 4: First aid measures

	Yeast Promoter	
	SureVector LacZ Control (N-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.
	XL1-Blue	No known significant effects or critical hazards.
	supercompetent cells	
	pUC 18 DNA Control	No known significant effects or critical hazards.
	Plasmid	
	Beta Mercaptoethanol	Harmful if inhaled.
Skin contact	: 5X SureSolution	No known significant effects or critical hazards.
	SureVector AmpR	No known significant effects or critical hazards.
	Selectable Marker	
	SureVector KanR	No known significant effects or critical hazards.
	Selectable Marker	
	SureVector ChIR	No known significant effects or critical hazards.
	Selectable Marker	
	SureVector pUC Origin	No known significant effects or critical hazards.
	SureVector p15a Origin	No known significant effects or critical hazards.
	SureVector pBR322	No known significant effects or critical hazards.
	Origin	
	SureVector XP1 Linker	No known significant effects or critical hazards.
	SureVector yARS	No known significant effects or critical hazards.
	SureVector XP2 Linker	No known significant effects or critical hazards.
	SureVector NeoR	No known significant effects or critical hazards.
	Mammalian Selectable Marker	
	SureVector LEU2 Yeast	No known significant effects or critical hazards.
	Selectable Marker	
	SureVector LacI	No known significant effects or critical hazards.
	Repressor	
	SureVector T7-HIS6 E. coli Promoter	No known significant effects or critical hazards.
	SureVector CMV-HIS6	No known significant effects or critical hazards.
	Mammalian Promoter	
	SureVector GAL1-HIS6	No known significant effects or critical hazards.
	Yeast Promoter	
	SureVector LacZ Control (N-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.
	XL1-Blue	No known significant effects or critical hazards.
	supercompetent cells	
	pUC 18 DNA Control	No known significant effects or critical hazards.
	Plasmid	
	Beta Mercaptoethanol	Harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction.
Ingestion	: 5X SureSolution	No known significant effects or critical hazards.
	SureVector AmpR	No known significant effects or critical hazards.
	Selectable Marker	
	SureVector KanR	No known significant effects or critical hazards.
	Selectable Marker	
	SureVector ChIR	No known significant effects or critical hazards.
	Selectable Marker	
	SureVector pUC Origin	No known significant effects or critical hazards.
	SureVector p15a Origin	No known significant effects or critical hazards.
	SureVector pBR322	No known significant effects or critical hazards.
	Origin	
	SureVector XP1 Linker	No known significant effects or critical hazards.
	SureVector yARS	No known significant effects or critical hazards.

SECTION 4: First aid measures

SureVector XP2 Linker	No known significant effects or critical hazards.
SureVector NeoR	No known significant effects or critical hazards.
Mammalian Selectable Marker	
SureVector LEU2 Yeast Selectable Marker	No known significant effects or critical hazards.
SureVector LacI Repressor	No known significant effects or critical hazards.
SureVector T7-HIS6 E. coli Promoter	No known significant effects or critical hazards.
SureVector CMV-HIS6 Mammalian Promoter	No known significant effects or critical hazards.
SureVector GAL1-HIS6 Yeast Promoter	No known significant effects or critical hazards.
SureVector LacZ Control (N-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.
XL1-Blue supercompetent cells	No known significant effects or critical hazards.
pUC 18 DNA Control Plasmid	No known significant effects or critical hazards.
Beta Mercaptoethanol	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact

: 5X SureSolution	No specific data.
SureVector AmpR Selectable Marker	No specific data.
SureVector KanR Selectable Marker	No specific data.
SureVector ChIR Selectable Marker	No specific data.
SureVector pUC Origin	No specific data.
SureVector p15a Origin	No specific data.
SureVector pBR322 Origin	No specific data.
SureVector XP1 Linker	No specific data.
SureVector yARS	No specific data.
SureVector XP2 Linker	No specific data.
SureVector NeoR	No specific data.
Mammalian Selectable Marker	
SureVector LEU2 Yeast Selectable Marker	No specific data.
SureVector LacI Repressor	No specific data.
SureVector T7-HIS6 E. coli Promoter	No specific data.
SureVector CMV-HIS6 Mammalian Promoter	No specific data.
SureVector GAL1-HIS6 Yeast Promoter	No specific data.
SureVector LacZ Control (N-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.
XL1-Blue supercompetent cells	No specific data.

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	pUC 18 DNA Control Plasmid	No specific data.
	Beta Mercaptoethanol	Adverse symptoms may include the following: pain watering redness
Inhalation	: 5X SureSolution	No specific data.
	SureVector AmpR Selectable Marker	No specific data.
	SureVector KanR Selectable Marker	No specific data.
	SureVector ChIR Selectable Marker	No specific data.
	SureVector pUC Origin	No specific data.
	SureVector p15a Origin	No specific data.
	SureVector pBR322 Origin	No specific data.
	SureVector XP1 Linker	No specific data.
	SureVector yARS	No specific data.
	SureVector XP2 Linker	No specific data.
	SureVector NeoR	No specific data.
	Mammalian Selectable Marker	
	SureVector LEU2 Yeast Selectable Marker	No specific data.
	SureVector LacI Repressor	No specific data.
	SureVector T7-HIS6 E. coli Promoter	No specific data.
	SureVector CMV-HIS6 Mammalian Promoter	No specific data.
	SureVector GAL1-HIS6 Yeast Promoter	No specific data.
	SureVector LacZ Control (N-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.
	XL1-Blue	No specific data.
	supercompetent cells	
	pUC 18 DNA Control Plasmid	No specific data.
	Beta Mercaptoethanol	No specific data.
Skin contact	: 5X SureSolution	No specific data.
	SureVector AmpR Selectable Marker	No specific data.
	SureVector KanR Selectable Marker	No specific data.
	SureVector ChIR Selectable Marker	No specific data.
	SureVector pUC Origin	No specific data.
	SureVector p15a Origin	No specific data.
	SureVector pBR322 Origin	No specific data.
	SureVector XP1 Linker	No specific data.
	SureVector yARS	No specific data.
	SureVector XP2 Linker	No specific data.
	SureVector NeoR	No specific data.
	Mammalian Selectable Marker	
	SureVector LEU2 Yeast Selectable Marker	No specific data.
	SureVector LacI	No specific data.

SECTION 4: First aid measures

Repressor	
SureVector T7-HIS6 E. coli Promoter	No specific data.
SureVector CMV-HIS6 Mammalian Promoter	No specific data.
SureVector GAL1-HIS6 Yeast Promoter	No specific data.
SureVector LacZ Control (N-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.
XL1-Blue	No specific data.
supercompetent cells	
pUC 18 DNA Control Plasmid	No specific data.
Beta Mercaptoethanol	Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	
: 5X SureSolution	No specific data.
SureVector AmpR Selectable Marker	No specific data.
SureVector KanR Selectable Marker	No specific data.
SureVector ChIR Selectable Marker	No specific data.
SureVector pUC Origin	No specific data.
SureVector p15a Origin	No specific data.
SureVector pBR322 Origin	No specific data.
SureVector XP1 Linker	No specific data.
SureVector yARS	No specific data.
SureVector XP2 Linker	No specific data.
SureVector NeoR	No specific data.
Mammalian Selectable Marker	
SureVector LEU2 Yeast Selectable Marker	No specific data.
SureVector LacI	No specific data.
Repressor	
SureVector T7-HIS6 E. coli Promoter	No specific data.
SureVector CMV-HIS6 Mammalian Promoter	No specific data.
SureVector GAL1-HIS6 Yeast Promoter	No specific data.
SureVector LacZ Control (N-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.
XL1-Blue	No specific data.
supercompetent cells	
pUC 18 DNA Control Plasmid	No specific data.
Beta Mercaptoethanol	Adverse symptoms may include the following: stomach pains

4.3 Indication of any immediate medical attention and special treatment needed

SECTION 4: First aid measures

SureVector XP2 Linker	No specific treatment.
SureVector NeoR	No specific treatment.
Mammalian Selectable Marker	
SureVector LEU2 Yeast Selectable Marker	No specific treatment.
SureVector LacI Repressor	No specific treatment.
SureVector T7-HIS6 E. coli Promoter	No specific treatment.
SureVector CMV-HIS6 Mammalian Promoter	No specific treatment.
SureVector GAL1-HIS6 Yeast Promoter	No specific treatment.
SureVector LacZ Control (N-term)	No specific treatment.
SureVector Enzyme Mix	No specific treatment.
10X SureVector Buffer	No specific treatment.
dNTP Mix	No specific treatment.
DpnI	No specific treatment.
XL1-Blue supercompetent cells	No specific treatment.
pUC 18 DNA Control Plasmid	No specific treatment.
Beta Mercaptoethanol	No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

: 5X SureSolution	Use an extinguishing agent suitable for the surrounding fire.
SureVector AmpR Selectable Marker	Use an extinguishing agent suitable for the surrounding fire.
SureVector KanR Selectable Marker	Use an extinguishing agent suitable for the surrounding fire.
SureVector ChIR Selectable Marker	Use an extinguishing agent suitable for the surrounding fire.
SureVector pUC Origin	Use an extinguishing agent suitable for the surrounding fire.
SureVector p15a Origin	Use an extinguishing agent suitable for the surrounding fire.
SureVector pBR322 Origin	Use an extinguishing agent suitable for the surrounding fire.
SureVector XP1 Linker	Use an extinguishing agent suitable for the surrounding fire.
SureVector yARS	Use an extinguishing agent suitable for the surrounding fire.
SureVector XP2 Linker	Use an extinguishing agent suitable for the surrounding fire.
SureVector NeoR	Use an extinguishing agent suitable for the surrounding fire.
Mammalian Selectable Marker	
SureVector LEU2 Yeast Selectable Marker	Use an extinguishing agent suitable for the surrounding fire.
SureVector LacI Repressor	Use an extinguishing agent suitable for the surrounding fire.
SureVector T7-HIS6 E. coli Promoter	Use an extinguishing agent suitable for the surrounding fire.
SureVector CMV-HIS6 Mammalian Promoter	Use an extinguishing agent suitable for the surrounding fire.
SureVector GAL1-HIS6 Yeast Promoter	Use an extinguishing agent suitable for the surrounding fire.
SureVector LacZ Control (N-term)	Use an extinguishing agent suitable for the surrounding fire.
SureVector Enzyme Mix	Use an extinguishing agent suitable for the surrounding fire.
10X SureVector Buffer	Use an extinguishing agent suitable for the surrounding fire.
dNTP Mix	Use an extinguishing agent suitable for the surrounding fire.
DpnI	Use an extinguishing agent suitable for the surrounding fire.
XL1-Blue supercompetent cells	Use an extinguishing agent suitable for the surrounding fire.
pUC 18 DNA Control	Use an extinguishing agent suitable for the surrounding fire.

SECTION 5: Firefighting measures

	Plasmid	
	Beta Mercaptoethanol	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: 5X SureSolution	None known.
	SureVector AmpR Selectable Marker	None known.
	SureVector KanR Selectable Marker	None known.
	SureVector ChIR Selectable Marker	None known.
	SureVector pUC Origin	None known.
	SureVector p15a Origin	None known.
	SureVector pBR322 Origin	None known.
	SureVector XP1 Linker	None known.
	SureVector yARS	None known.
	SureVector XP2 Linker	None known.
	SureVector NeoR Mammalian Selectable Marker	None known.
	SureVector LEU2 Yeast Selectable Marker	None known.
	SureVector LacI Repressor	None known.
	SureVector T7-HIS6 E. coli Promoter	None known.
	SureVector CMV-HIS6 Mammalian Promoter	None known.
	SureVector GAL1-HIS6 Yeast Promoter	None known.
	SureVector LacZ Control (N-term)	None known.
	SureVector Enzyme Mix	None known.
	10X SureVector Buffer	None known.
	dNTP Mix	None known.
	DpnI	None known.
	XL1-Blue supercompetent cells	None known.
	pUC 18 DNA Control Plasmid	None known.
	Beta Mercaptoethanol	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 KanR Selectable Marker	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureVector ChIR 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 p15a Origin	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureVector pBR322 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 yARS	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureVector XP2 Linker	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureVector NeoR	In a fire or if heated, a pressure increase will occur and the

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Mammalian Selectable Marker	container may burst.
SureVector LEU2 Yeast Selectable Marker	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 CMV-HIS6 Mammalian Promoter	In a fire or if heated, a pressure increase will occur and the container may burst.
SureVector GAL1-HIS6 Yeast Promoter	In a fire or if heated, a pressure increase will occur and the container may burst.
SureVector LacZ Control (N-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.
XL1-Blue supercompetent cells	In a fire or if heated, a pressure increase will occur and the container may burst.
pUC 18 DNA Control Plasmid	In a fire or if heated, a pressure increase will occur and the container may burst.
Beta Mercaptoethanol	In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
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 KanR Selectable Marker	No specific data.
SureVector ChIR Selectable Marker	No specific data.
SureVector pUC Origin	No specific data.
SureVector p15a Origin	No specific data.
SureVector pBR322 Origin	No specific data.
SureVector XP1 Linker	No specific data.
SureVector yARS	No specific data.
SureVector XP2 Linker	No specific data.
SureVector NeoR	No specific data.
Mammalian Selectable Marker	
SureVector LEU2 Yeast Selectable Marker	No specific data.
SureVector LacI Repressor	No specific data.
SureVector T7-HIS6 E. coli Promoter	No specific data.
SureVector CMV-HIS6 Mammalian Promoter	No specific data.
SureVector GAL1-HIS6 Yeast Promoter	No specific data.
SureVector LacZ Control (N-term)	No specific data.
SureVector Enzyme Mix	Decomposition products may include the following materials:

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10X SureVector Buffer	carbon dioxide carbon monoxide 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
XL1-Blue supercompetent cells	Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides halogenated compounds metal oxide/oxides
pUC 18 DNA Control Plasmid	No specific data.
Beta Mercaptoethanol	Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur 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 KanR 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 ChIR 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 p15a 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 pBR322 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 yARS	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 XP2 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.

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SureVector NeoR Mammalian 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 LEU2 Yeast 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 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 CMV-HIS6 Mammalian 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 GAL1-HIS6 Yeast 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 LacZ Control (N-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.
Dpnl	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.
XL1-Blue supercompetent cells	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.
pUC 18 DNA Control Plasmid	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.
Beta Mercaptoethanol	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 KanR 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 ChIR 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)

Special protective equipment for fire-fighters

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SureVector pUC Origin	conforming to European standard EN 469 will provide a 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 p15a 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 pBR322 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 yARS	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 XP2 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 NeoR Mammalian 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 LEU2 Yeast 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 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 CMV-HIS6 Mammalian Promoter	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full

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	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 GAL1-HIS6 Yeast 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 LacZ Control (N-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.
XL1-Blue supercompetent cells	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.
pUC 18 DNA Control Plasmid	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.
Beta Mercaptoethanol	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

For non-emergency personnel	: 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 spilled 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 spilled material. Put on appropriate personal protective equipment.
	SureVector KanR 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 spilled material. Put on appropriate personal protective equipment.
	SureVector ChIR 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 spilled 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 spilled material. Put on appropriate personal protective equipment.
	SureVector p15a 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 spilled material. Put on appropriate personal protective equipment.
	SureVector pBR322 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 spilled material. Put on appropriate personal protective equipment.
	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 spilled material. Put on appropriate personal protective equipment.
	SureVector yARS	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 spilled material. Put on appropriate personal protective equipment.
	SureVector XP2 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 spilled material. Put on appropriate personal protective equipment.
	SureVector NeoR Mammalian 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 spilled material. Put on appropriate personal protective equipment.
	SureVector LEU2 Yeast 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 spilled 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.

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	Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
SureVector T7-HIS6 E. coli 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 CMV-HIS6 Mammalian 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 GAL1-HIS6 Yeast 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 LacZ Control (N-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.
XL1-Blue supercompetent cells	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.
pUC 18 DNA Control Plasmid	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.
Beta Mercaptoethanol	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. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

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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 KanR 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 ChIR 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 p15a 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 pBR322 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 yARS	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 XP2 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 NeoR Mammalian 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 LEU2 Yeast 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 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 E. coli 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 CMV-HIS6 Mammalian 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 GAL1-HIS6 Yeast 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".

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SureVector LacZ Control (N-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".
XL1-Blue supercompetent cells	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".
pUC 18 DNA Control Plasmid	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".
Beta Mercaptoethanol	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".

6.2 Environmental precautions

: 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 KanR 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 ChIR 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 p15a 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 pBR322 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

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SureVector yARS	(sewers, waterways, soil or air). 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 XP2 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 NeoR Mammalian 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 LEU2 Yeast 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 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 CMV-HIS6 Mammalian 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 GAL1-HIS6 Yeast 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 LacZ Control (N-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).
XL1-Blue supercompetent cells	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).
pUC 18 DNA Control Plasmid	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).
Beta Mercaptoethanol	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). Water polluting material.

SECTION 6: Accidental release measures

May be harmful to the environment if released in large quantities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : 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 KanR 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 ChIR 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 p15a 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 pBR322 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 yARS	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 XP2 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 NeoR Mammalian 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 LEU2 Yeast 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

SECTION 6: Accidental release measures

SureVector LacI Repressor	place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. 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 E. coli 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 CMV-HIS6 Mammalian 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 GAL1-HIS6 Yeast 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 LacZ Control (N-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, 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.
DpnI	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.
XL1-Blue supercompetent cells	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.
pUC 18 DNA Control Plasmid	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.
Beta Mercaptoethanol	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.

SECTION 6: Accidental release measures

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**

Protective measures	:	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 KanR Selectable Marker	Put on appropriate personal protective equipment (see Section 8).
		SureVector ChIR Selectable Marker	Put on appropriate personal protective equipment (see Section 8).
		SureVector pUC Origin	Put on appropriate personal protective equipment (see Section 8).
		SureVector p15a Origin	Put on appropriate personal protective equipment (see Section 8).
		SureVector pBR322 Origin	Put on appropriate personal protective equipment (see Section 8).
		SureVector XP1 Linker	Put on appropriate personal protective equipment (see Section 8).
		SureVector yARS	Put on appropriate personal protective equipment (see Section 8).
		SureVector XP2 Linker	Put on appropriate personal protective equipment (see Section 8).
		SureVector NeoR Mammalian Selectable Marker	Put on appropriate personal protective equipment (see Section 8).
		SureVector LEU2 Yeast Selectable Marker	Put on appropriate personal protective equipment (see Section 8).
		SureVector LacI Repressor	Put on appropriate personal protective equipment (see Section 8).
		SureVector T7-HIS6 E. coli Promoter	Put on appropriate personal protective equipment (see Section 8).
		SureVector CMV-HIS6 Mammalian Promoter	Put on appropriate personal protective equipment (see Section 8).
		SureVector GAL1-HIS6 Yeast Promoter	Put on appropriate personal protective equipment (see Section 8).
		SureVector LacZ Control (N-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).
		DpnI	Put on appropriate personal protective equipment (see Section 8).
		XL1-Blue supercompetent cells	Put on appropriate personal protective equipment (see Section 8).
		pUC 18 DNA Control Plasmid	Put on appropriate personal protective equipment (see Section 8).
		Beta Mercaptoethanol	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate

SECTION 7: Handling and storage

Advice on general occupational hygiene

: 5X SureSolution

SureVector AmpR Selectable Marker

SureVector KanR Selectable Marker

SureVector ChIR Selectable Marker

SureVector pUC Origin

SureVector p15a Origin

SureVector pBR322 Origin

SureVector XP1 Linker

SureVector yARS

SureVector XP2 Linker

ventilation. Wear appropriate respirator when ventilation is inadequate. 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.

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.

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.

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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 7: Handling and storage

SureVector NeoR Mammalian Selectable Marker	<p>Section 8 for additional information on hygiene measures. 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.</p>
SureVector LEU2 Yeast Selectable Marker	<p>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.</p>
SureVector LacI Repressor	<p>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.</p>
SureVector T7-HIS6 E. coli Promoter	<p>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.</p>
SureVector CMV-HIS6 Mammalian Promoter	<p>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.</p>
SureVector GAL1-HIS6 Yeast Promoter	<p>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.</p>
SureVector LacZ Control (N-term)	<p>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.</p>
SureVector Enzyme Mix	<p>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.</p>
10X SureVector Buffer	<p>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.</p>
dNTP Mix	<p>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.</p>
DpnI	<p>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,</p>

SECTION 7: Handling and storage

XL1-Blue supercompetent cells	drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Potentially biohazardous material. 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.
pUC 18 DNA Control Plasmid	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.
Beta Mercaptoethanol	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

Storage	: 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 KanR 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 ChIR 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

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 p15a 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 pBR322 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 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 yARS	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 XP2 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 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 NeoR Mammalian 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 LEU2 Yeast 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

SECTION 7: Handling and storage

	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 E. coli 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 CMV-HIS6 Mammalian 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 GAL1-HIS6 Yeast 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 LacZ Control (N-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 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

SECTION 7: Handling and storage

	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.
XL1-Blue supercompetent cells	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.
pUC 18 DNA Control Plasmid	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.
Beta Mercaptoethanol	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. Store locked up. 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	Industrial applications, Professional applications.
Selectable Marker	
SureVector KanR	Industrial applications, Professional applications.
Selectable Marker	
SureVector ChIR	Industrial applications, Professional applications.
Selectable Marker	
SureVector pUC Origin	Industrial applications, Professional applications.
SureVector p15a Origin	Industrial applications, Professional applications.
SureVector pBR322	Industrial applications, Professional applications.
Origin	
SureVector XP1 Linker	Industrial applications, Professional applications.
SureVector yARS	Industrial applications, Professional applications.
SureVector XP2 Linker	Industrial applications, Professional applications.

SECTION 7: Handling and storage

	SureVector NeoR Mammalian Selectable Marker	Industrial applications, Professional applications.
	SureVector LEU2 Yeast Selectable Marker	Industrial applications, Professional applications.
	SureVector LacI Repressor	Industrial applications, Professional applications.
	SureVector T7-HIS6 E. coli Promoter	Industrial applications, Professional applications.
	SureVector CMV-HIS6 Mammalian Promoter	Industrial applications, Professional applications.
	SureVector GAL1-HIS6 Yeast Promoter	Industrial applications, Professional applications.
	SureVector LacZ Control (N-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.
	XL1-Blue supercompetent cells	Industrial applications, Professional applications.
	pUC 18 DNA Control Plasmid	Industrial applications, Professional applications.
	Beta Mercaptoethanol	Industrial applications, Professional applications.
Industrial sector specific solutions	: 5X SureSolution	Not applicable.
	SureVector AmpR Selectable Marker	Not applicable.
	SureVector KanR Selectable Marker	Not applicable.
	SureVector ChIR Selectable Marker	Not applicable.
	SureVector pUC Origin	Not applicable.
	SureVector p15a Origin	Not applicable.
	SureVector pBR322 Origin	Not applicable.
	SureVector XP1 Linker	Not applicable.
	SureVector yARS	Not applicable.
	SureVector XP2 Linker	Not applicable.
	SureVector NeoR Mammalian Selectable Marker	Not applicable.
	SureVector LEU2 Yeast Selectable Marker	Not applicable.
	SureVector LacI Repressor	Not applicable.
	SureVector T7-HIS6 E. coli Promoter	Not applicable.
	SureVector CMV-HIS6 Mammalian Promoter	Not applicable.
	SureVector GAL1-HIS6 Yeast Promoter	Not applicable.
	SureVector LacZ Control (N-term)	Not applicable.
	SureVector Enzyme Mix	Not applicable.
	10X SureVector Buffer	Not applicable.
	dNTP Mix	Not applicable.
	DpnI	Not applicable.
	XL1-Blue supercompetent cells	Not applicable.
	pUC 18 DNA Control Plasmid	Not applicable.
	Beta Mercaptoethanol	Not applicable.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
SureVector Enzyme Mix Glycerol	EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 10 mg/m ³ 8 hours. Form: Mist
Dpnl Glycerol	EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 10 mg/m ³ 8 hours. Form: Mist
XL1-Blue supercompetent cells Glycerol	EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 10 mg/m ³ 8 hours. Form: Mist
Sucrose	EH40/2005 WELs (United Kingdom (UK), 12/2011). STEL: 20 mg/m ³ 15 minutes. TWA: 10 mg/m ³ 8 hours.

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.

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls : If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Individual protection measures

Hygiene measures : Handle as biohazard material (Biosafety level 1). 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. Contaminated work clothing should not be allowed out of the workplace. 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 and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Skin protection

SECTION 8: Exposure controls/personal 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**

Physical state	:	5X SureSolution	Liquid. [Clear.]
		SureVector AmpR	Liquid.
		Selectable Marker	
		SureVector KanR	Liquid.
		Selectable Marker	
		SureVector ChIR	Liquid.
		Selectable Marker	
		SureVector pUC Origin	Liquid.
		SureVector p15a Origin	Liquid.
		SureVector pBR322	Liquid.
		Origin	
		SureVector XP1 Linker	Liquid.
		SureVector yARS	Liquid.
		SureVector XP2 Linker	Liquid.
		SureVector NeoR	Liquid.
		Mammalian Selectable	
		Marker	
		SureVector LEU2	Liquid.
		Yeast Selectable	
		Marker	
		SureVector LacI	Liquid.
		Repressor	
		SureVector T7-HIS6 E.	Liquid.
		coli Promoter	
		SureVector CMV-HIS6	Liquid.
		Mammalian Promoter	
		SureVector GAL1-HIS6	Liquid.
		Yeast Promoter	
		SureVector LacZ	Liquid.
		Control (N-term)	
		SureVector Enzyme Mix	Liquid.
		10X SureVector Buffer	Liquid.
		dNTP Mix	Liquid.
		DpnI	Liquid.
		XL1-Blue	Liquid.
		supercompetent cells	
		pUC 18 DNA Control	Liquid.

SECTION 9: Physical and chemical properties

	Plasmid	
	Beta Mercaptoethanol	Liquid.
Colour	: 5X SureSolution	Blue.
	SureVector AmpR	Not available.
	Selectable Marker	
	SureVector KanR	Not available.
	Selectable Marker	
	SureVector ChIR	Not available.
	Selectable Marker	
	SureVector pUC Origin	Not available.
	SureVector p15a Origin	Not available.
	SureVector pBR322	Not available.
	Origin	
	SureVector XP1 Linker	Not available.
	SureVector yARS	Not available.
	SureVector XP2 Linker	Not available.
	SureVector NeoR	Not available.
	Mammalian Selectable	
	Marker	
	SureVector LEU2	Not available.
	Yeast Selectable	
	Marker	
	SureVector LacI	Not available.
	Repressor	
	SureVector T7-HIS6 E.	Not available.
	coli Promoter	
	SureVector CMV-HIS6	Not available.
	Mammalian Promoter	
	SureVector GAL1-HIS6	Not available.
	Yeast Promoter	
	SureVector LacZ	Not available.
	Control (N-term)	
	SureVector Enzyme Mix	Not available.
	10X SureVector Buffer	Not available.
	dNTP Mix	Not available.
	DpnI	Not available.
	XL1-Blue	Not available.
	supercompetent cells	
	pUC 18 DNA Control	Not available.
	Plasmid	
	Beta Mercaptoethanol	Not available.
Odour	: 5X SureSolution	Odourless. [Slight]
	SureVector AmpR	Not available.
	Selectable Marker	
	SureVector KanR	Not available.
	Selectable Marker	
	SureVector ChIR	Not available.
	Selectable Marker	
	SureVector pUC Origin	Not available.
	SureVector p15a Origin	Not available.
	SureVector pBR322	Not available.
	Origin	
	SureVector XP1 Linker	Not available.
	SureVector yARS	Not available.
	SureVector XP2 Linker	Not available.
	SureVector NeoR	Not available.
	Mammalian Selectable	
	Marker	
	SureVector LEU2	Not available.
	Yeast Selectable	
	Marker	
	SureVector LacI	Not available.
	Repressor	
	SureVector T7-HIS6 E.	Not available.

SECTION 9: Physical and chemical properties

		coli Promoter	
		SureVector CMV-HIS6	Not available.
		Mammalian Promoter	
		SureVector GAL1-HIS6	Not available.
		Yeast Promoter	
		SureVector LacZ	Not available.
		Control (N-term)	
		SureVector Enzyme Mix	Not available.
		10X SureVector Buffer	Not available.
		dNTP Mix	Not available.
		DpnI	Not available.
		XL1-Blue	Not available.
		supercompetent cells	
		pUC 18 DNA Control	Not available.
		Plasmid	
		Beta Mercaptoethanol	Not available.
Odour threshold	:	5X SureSolution	Not available.
		SureVector AmpR	Not available.
		Selectable Marker	
		SureVector KanR	Not available.
		Selectable Marker	
		SureVector ChIR	Not available.
		Selectable Marker	
		SureVector pUC Origin	Not available.
		SureVector p15a Origin	Not available.
		SureVector pBR322	Not available.
		Origin	
		SureVector XP1 Linker	Not available.
		SureVector yARS	Not available.
		SureVector XP2 Linker	Not available.
		SureVector NeoR	Not available.
		Mammalian Selectable	
		Marker	
		SureVector LEU2	Not available.
		Yeast Selectable	
		Marker	
		SureVector LacI	Not available.
		Repressor	
		SureVector T7-HIS6 E.	Not available.
		coli Promoter	
		SureVector CMV-HIS6	Not available.
		Mammalian Promoter	
		SureVector GAL1-HIS6	Not available.
		Yeast Promoter	
		SureVector LacZ	Not available.
		Control (N-term)	
		SureVector Enzyme Mix	Not available.
		10X SureVector Buffer	Not available.
		dNTP Mix	Not available.
		DpnI	Not available.
		XL1-Blue	Not available.
		supercompetent cells	
		pUC 18 DNA Control	Not available.
		Plasmid	
		Beta Mercaptoethanol	Not available.
pH	:	5X SureSolution	Not available.
		SureVector AmpR	8
		Selectable Marker	
		SureVector KanR	8
		Selectable Marker	
		SureVector ChIR	8
		Selectable Marker	
		SureVector pUC Origin	8
		SureVector p15a Origin	8

SECTION 9: Physical and chemical properties

SureVector pBR322	8
Origin	
SureVector XP1 Linker	8
SureVector yARS	8
SureVector XP2 Linker	8
SureVector NeoR	8
Mammalian Selectable Marker	
SureVector LEU2	8
Yeast Selectable Marker	
SureVector LacI	8
Repressor	
SureVector T7-HIS6 E. coli Promoter	8
SureVector CMV-HIS6 Mammalian Promoter	8
SureVector GAL1-HIS6 Yeast Promoter	8
SureVector LacZ Control (N-term)	8
SureVector Enzyme Mix	8.2
10X SureVector Buffer	8.8
dNTP Mix	7.5
DpnI	7.5
XL1-Blue supercompetent cells	6.4
pUC 18 DNA Control Plasmid	7.5
Beta Mercaptoethanol	Not available.

Melting point/freezing point :

5X SureSolution	18.5°C
SureVector AmpR Selectable Marker	0°C
SureVector KanR Selectable Marker	0°C
SureVector ChIR Selectable Marker	0°C
SureVector pUC Origin	0°C
SureVector p15a Origin	0°C
SureVector pBR322 Origin	0°C
SureVector XP1 Linker	0°C
SureVector yARS	0°C
SureVector XP2 Linker	0°C
SureVector NeoR	0°C
Mammalian Selectable Marker	
SureVector LEU2	0°C
Yeast Selectable Marker	
SureVector LacI	0°C
Repressor	
SureVector T7-HIS6 E. coli Promoter	0°C
SureVector CMV-HIS6 Mammalian Promoter	0°C
SureVector GAL1-HIS6 Yeast Promoter	0°C
SureVector LacZ Control (N-term)	0°C
SureVector Enzyme Mix	Not available.
10X SureVector Buffer	Not available.
dNTP Mix	Not available.
DpnI	Not available.

SECTION 9: Physical and chemical properties

	XL1-Blue	Not available.
	supercompetent cells	
	pUC 18 DNA Control	0°C
	Plasmid	
	Beta Mercaptoethanol	Not available.
Initial boiling point and boiling range	: 5X SureSolution	189°C
	SureVector AmpR	100°C
	Selectable Marker	
	SureVector KanR	100°C
	Selectable Marker	
	SureVector ChIR	100°C
	Selectable Marker	
	SureVector pUC Origin	100°C
	SureVector p15a Origin	100°C
	SureVector pBR322	100°C
	Origin	
	SureVector XP1 Linker	100°C
	SureVector yARS	100°C
	SureVector XP2 Linker	100°C
	SureVector NeoR	100°C
	Mammalian Selectable	
	Marker	
	SureVector LEU2	100°C
	Yeast Selectable	
	Marker	
	SureVector LacI	100°C
	Repressor	
	SureVector T7-HIS6 E.	100°C
	coli Promoter	
	SureVector CMV-HIS6	100°C
	Mammalian Promoter	
	SureVector GAL1-HIS6	100°C
	Yeast Promoter	
	SureVector LacZ	100°C
	Control (N-term)	
	SureVector Enzyme Mix	Not available.
	10X SureVector Buffer	Not available.
	dNTP Mix	Not available.
	DpnI	Not available.
	XL1-Blue	Not available.
	supercompetent cells	
	pUC 18 DNA Control	100°C
	Plasmid	
	Beta Mercaptoethanol	Not available.
Flash point	: 5X SureSolution	Closed cup: 87°C
	SureVector AmpR	Not available.
	Selectable Marker	
	SureVector KanR	Not available.
	Selectable Marker	
	SureVector ChIR	Not available.
	Selectable Marker	
	SureVector pUC Origin	Not available.
	SureVector p15a Origin	Not available.
	SureVector pBR322	Not available.
	Origin	
	SureVector XP1 Linker	Not available.
	SureVector yARS	Not available.
	SureVector XP2 Linker	Not available.
	SureVector NeoR	Not available.
	Mammalian Selectable	
	Marker	
	SureVector LEU2	Not available.
	Yeast Selectable	
	Marker	

SECTION 9: Physical and chemical properties

SureVector LacI	Not available.
Repressor	
SureVector T7-HIS6 E. coli Promoter	Not available.
SureVector CMV-HIS6 Mammalian Promoter	Not available.
SureVector GAL1-HIS6 Yeast Promoter	Not available.
SureVector LacZ Control (N-term)	Not available.
SureVector Enzyme Mix	Not available.
10X SureVector Buffer	Not available.
dNTP Mix	Not available.
DpnI	Not available.
XL1-Blue	Not available.
supercompetent cells	
pUC 18 DNA Control Plasmid	Not available.
Beta Mercaptoethanol	Not available.
5X SureSolution	0.026 (butyl acetate = 1)
SureVector AmpR Selectable Marker	Not available.
SureVector KanR Selectable Marker	Not available.
SureVector ChIR Selectable Marker	Not available.
SureVector pUC Origin	Not available.
SureVector p15a Origin	Not available.
SureVector pBR322 Origin	Not available.
SureVector XP1 Linker	Not available.
SureVector yARS	Not available.
SureVector XP2 Linker	Not available.
SureVector NeoR Mammalian Selectable Marker	Not available.
SureVector LEU2 Yeast Selectable Marker	Not available.
SureVector LacI	Not available.
Repressor	
SureVector T7-HIS6 E. coli Promoter	Not available.
SureVector CMV-HIS6 Mammalian Promoter	Not available.
SureVector GAL1-HIS6 Yeast Promoter	Not available.
SureVector LacZ Control (N-term)	Not available.
SureVector Enzyme Mix	Not available.
10X SureVector Buffer	Not available.
dNTP Mix	Not available.
DpnI	Not available.
XL1-Blue	Not available.
supercompetent cells	
pUC 18 DNA Control Plasmid	Not available.
Beta Mercaptoethanol	Not available.

Evaporation rate

: 5X SureSolution 0.026 (butyl acetate = 1)

SECTION 9: Physical and chemical properties

Flammability (solid, gas)	: 5X SureSolution	Not applicable.
	SureVector AmpR	Not applicable.
	Selectable Marker	
	SureVector KanR	Not applicable.
	Selectable Marker	
	SureVector ChIR	Not applicable.
	Selectable Marker	
	SureVector pUC Origin	Not applicable.
	SureVector p15a Origin	Not applicable.
	SureVector pBR322	Not applicable.
	Origin	
	SureVector XP1 Linker	Not applicable.
	SureVector yARS	Not applicable.
	SureVector XP2 Linker	Not applicable.
	SureVector NeoR	Not applicable.
	Mammalian Selectable	
	Marker	
	SureVector LEU2	Not applicable.
	Yeast Selectable	
	Marker	
	SureVector LacI	Not applicable.
	Repressor	
	SureVector T7-HIS6 E.	Not applicable.
	coli Promoter	
	SureVector CMV-HIS6	Not applicable.
	Mammalian Promoter	
	SureVector	Not applicable.
	GAL1-HIS6 Yeast	
	Promoter	
	SureVector LacZ	Not applicable.
	Control (N-term)	
	SureVector Enzyme	Not applicable.
	Mix	
	10X SureVector Buffer	Not applicable.
	dNTP Mix	Not applicable.
	DpnI	Not applicable.
	XL1-Blue	Not applicable.
	supercompetent cells	
	pUC 18 DNA Control	Not applicable.
	Plasmid	
	Beta Mercaptoethanol	Not applicable.

Upper/lower flammability or explosive limits	: 5X SureSolution	Lower: 2.6%
		Upper: 28.5%
	SureVector AmpR	Not available.
	Selectable Marker	
	SureVector KanR	Not available.
	Selectable Marker	
	SureVector ChIR	Not available.
	Selectable Marker	
	SureVector pUC Origin	Not available.
	SureVector p15a Origin	Not available.
	SureVector pBR322	Not available.
	Origin	
	SureVector XP1 Linker	Not available.
	SureVector yARS	Not available.
	SureVector XP2 Linker	Not available.
	SureVector NeoR	Not available.
	Mammalian Selectable	
	Marker	
	SureVector LEU2	Not available.
	Yeast Selectable	
	Marker	
	SureVector LacI	Not available.
	Repressor	

SECTION 9: Physical and chemical properties

	SureVector T7-HIS6 E. coli Promoter	Not available.
	SureVector CMV-HIS6 Mammalian Promoter	Not available.
	SureVector GAL1-HIS6 Yeast Promoter	Not available.
	SureVector LacZ Control (N-term)	Not available.
	SureVector Enzyme Mix	Not available.
	10X SureVector Buffer	Not available.
	dNTP Mix	Not available.
	DpnI	Not available.
	XL1-Blue supercompetent cells	Not available.
	pUC 18 DNA Control Plasmid	Not available.
	Beta Mercaptoethanol	Not available.
Vapour pressure	: 5X SureSolution	0.056 kPa [room temperature]
	SureVector AmpR Selectable Marker	Not available.
	SureVector KanR Selectable Marker	Not available.
	SureVector ChIR Selectable Marker	Not available.
	SureVector pUC Origin	Not available.
	SureVector p15a Origin	Not available.
	SureVector pBR322 Origin	Not available.
	SureVector XP1 Linker	Not available.
	SureVector yARS	Not available.
	SureVector XP2 Linker	Not available.
	SureVector NeoR Mammalian Selectable Marker	Not available.
	SureVector LEU2 Yeast Selectable Marker	Not available.
	SureVector LacI Repressor	Not available.
	SureVector T7-HIS6 E. coli Promoter	Not available.
	SureVector CMV-HIS6 Mammalian Promoter	Not available.
	SureVector GAL1-HIS6 Yeast Promoter	Not available.
	SureVector LacZ Control (N-term)	Not available.
	SureVector Enzyme Mix	Not available.
	10X SureVector Buffer	Not available.
	dNTP Mix	Not available.
	DpnI	Not available.
	XL1-Blue supercompetent cells	Not available.
	pUC 18 DNA Control Plasmid	Not available.
	Beta Mercaptoethanol	Not available.
Vapour density	: 5X SureSolution	2.7 [Air = 1]
	SureVector AmpR Selectable Marker	Not available.
	SureVector KanR Selectable Marker	Not available.
	SureVector ChIR Selectable Marker	Not available.
	SureVector pUC Origin	Not available.

SECTION 9: Physical and chemical properties

SureVector p15a Origin	Not available.
SureVector pBR322 Origin	Not available.
SureVector XP1 Linker	Not available.
SureVector yARS	Not available.
SureVector XP2 Linker	Not available.
SureVector NeoR	Not available.
Mammalian Selectable Marker	
SureVector LEU2 Yeast Selectable Marker	Not available.
SureVector LacI Repressor	Not available.
SureVector T7-HIS6 E. coli Promoter	Not available.
SureVector CMV-HIS6 Mammalian Promoter	Not available.
SureVector GAL1-HIS6 Yeast Promoter	Not available.
SureVector LacZ Control (N-term)	Not available.
SureVector Enzyme Mix	Not available.
10X SureVector Buffer	Not available.
dNTP Mix	Not available.
DpnI	Not available.
XL1-Blue supercompetent cells	Not available.
pUC 18 DNA Control Plasmid	Not available.
Beta Mercaptoethanol	Not available.
5X SureSolution	1.1
SureVector AmpR Selectable Marker	Not available.
SureVector KanR Selectable Marker	Not available.
SureVector ChIR Selectable Marker	Not available.
SureVector pUC Origin	Not available.
SureVector p15a Origin	Not available.
SureVector pBR322 Origin	Not available.
SureVector XP1 Linker	Not available.
SureVector yARS	Not available.
SureVector XP2 Linker	Not available.
SureVector NeoR	Not available.
Mammalian Selectable Marker	
SureVector LEU2 Yeast Selectable Marker	Not available.
SureVector LacI Repressor	Not available.
SureVector T7-HIS6 E. coli Promoter	Not available.
SureVector CMV-HIS6 Mammalian Promoter	Not available.
SureVector GAL1-HIS6 Yeast Promoter	Not available.
SureVector LacZ Control (N-term)	Not available.
SureVector Enzyme Mix	Not available.
10X SureVector Buffer	Not available.
dNTP Mix	Not available.

Relative density

:

SECTION 9: Physical and chemical properties

	DpnI	Not available.
	XL1-Blue supercompetent cells	Not available.
	pUC 18 DNA Control Plasmid	Not available.
	Beta Mercaptoethanol	Not available.
Solubility(ies)	: 5X SureSolution	Easily soluble in the following materials: cold water and hot water.
	SureVector AmpR Selectable Marker	Easily soluble in the following materials: cold water and hot water.
	SureVector KanR Selectable Marker	Easily soluble in the following materials: cold water and hot water.
	SureVector ChIR 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 p15a Origin	Easily soluble in the following materials: cold water and hot water.
	SureVector pBR322 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 yARS	Easily soluble in the following materials: cold water and hot water.
	SureVector XP2 Linker	Easily soluble in the following materials: cold water and hot water.
	SureVector NeoR Mammalian Selectable Marker	Easily soluble in the following materials: cold water and hot water.
	SureVector LEU2 Yeast Selectable Marker	Easily soluble in the following materials: cold water and hot water.
	SureVector LacI Repressor	Easily soluble in the following materials: cold water and hot water.
	SureVector T7-HIS6 E. coli Promoter	Easily soluble in the following materials: cold water and hot water.
	SureVector CMV-HIS6 Mammalian Promoter	Easily soluble in the following materials: cold water and hot water.
	SureVector GAL1-HIS6 Yeast Promoter	Easily soluble in the following materials: cold water and hot water.
	SureVector LacZ Control (N-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.
	XL1-Blue supercompetent cells	Soluble in the following materials: cold water and hot water.
	pUC 18 DNA Control Plasmid	Easily soluble in the following materials: cold water and hot water.
	Beta Mercaptoethanol	Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	: 5X SureSolution	-1.35
	SureVector AmpR Selectable Marker	Not available.
	SureVector KanR Selectable Marker	Not available.
	SureVector ChIR Selectable Marker	Not available.
	SureVector pUC Origin	Not available.

SECTION 9: Physical and chemical properties

SureVector p15a Origin	Not available.
SureVector pBR322 Origin	Not available.
SureVector XP1 Linker	Not available.
SureVector yARS	Not available.
SureVector XP2 Linker	Not available.
SureVector NeoR	Not available.
Mammalian Selectable Marker	
SureVector LEU2 Yeast Selectable Marker	Not available.
SureVector LacI Repressor	Not available.
SureVector T7-HIS6 E. coli Promoter	Not available.
SureVector CMV-HIS6 Mammalian Promoter	Not available.
SureVector GAL1-HIS6 Yeast Promoter	Not available.
SureVector LacZ Control (N-term)	Not available.
SureVector Enzyme Mix	Not available.
10X SureVector Buffer	Not available.
dNTP Mix	Not available.
DpnI	Not available.
XL1-Blue supercompetent cells	Not available.
pUC 18 DNA Control Plasmid	Not available.
Beta Mercaptoethanol	Not available.
5X SureSolution	300 to 302°C
SureVector AmpR Selectable Marker	Not available.
SureVector KanR Selectable Marker	Not available.
SureVector ChIR Selectable Marker	Not available.
SureVector pUC Origin	Not available.
SureVector p15a Origin	Not available.
SureVector pBR322 Origin	Not available.
SureVector XP1 Linker	Not available.
SureVector yARS	Not available.
SureVector XP2 Linker	Not available.
SureVector NeoR	Not available.
Mammalian Selectable Marker	
SureVector LEU2 Yeast Selectable Marker	Not available.
SureVector LacI Repressor	Not available.
SureVector T7-HIS6 E. coli Promoter	Not available.
SureVector CMV-HIS6 Mammalian Promoter	Not available.
SureVector GAL1-HIS6 Yeast Promoter	Not available.
SureVector LacZ Control (N-term)	Not available.
SureVector Enzyme Mix	Not available.
10X SureVector Buffer	Not available.
dNTP Mix	Not available.

Auto-ignition temperature

SECTION 9: Physical and chemical properties

	DpnI	Not available.
	XL1-Blue	Not available.
	supercompetent cells	
	pUC 18 DNA Control	Not available.
	Plasmid	
	Beta Mercaptoethanol	Not available.
Decomposition temperature	: 5X SureSolution	140 to 189°C
	SureVector AmpR	Not available.
	Selectable Marker	
	SureVector KanR	Not available.
	Selectable Marker	
	SureVector ChIR	Not available.
	Selectable Marker	
	SureVector pUC Origin	Not available.
	SureVector p15a Origin	Not available.
	SureVector pBR322	Not available.
	Origin	
	SureVector XP1 Linker	Not available.
	SureVector yARS	Not available.
	SureVector XP2 Linker	Not available.
	SureVector NeoR	Not available.
	Mammalian Selectable	
	Marker	
	SureVector LEU2	Not available.
	Yeast Selectable	
	Marker	
	SureVector LacI	Not available.
	Repressor	
	SureVector T7-HIS6 E.	Not available.
	coli Promoter	
	SureVector CMV-HIS6	Not available.
	Mammalian Promoter	
	SureVector GAL1-HIS6	Not available.
	Yeast Promoter	
	SureVector LacZ	Not available.
	Control (N-term)	
	SureVector Enzyme Mix	Not available.
	10X SureVector Buffer	Not available.
	dNTP Mix	Not available.
	DpnI	Not available.
	XL1-Blue	Not available.
	supercompetent cells	
	pUC 18 DNA Control	Not available.
	Plasmid	
	Beta Mercaptoethanol	Not available.
Viscosity	: 5X SureSolution	Dynamic (room temperature): 2.14 mPa·s
	SureVector AmpR	Not available.
	Selectable Marker	
	SureVector KanR	Not available.
	Selectable Marker	
	SureVector ChIR	Not available.
	Selectable Marker	
	SureVector pUC Origin	Not available.
	SureVector p15a Origin	Not available.
	SureVector pBR322	Not available.
	Origin	
	SureVector XP1 Linker	Not available.
	SureVector yARS	Not available.
	SureVector XP2 Linker	Not available.
	SureVector NeoR	Not available.
	Mammalian Selectable	
	Marker	
	SureVector LEU2	Not available.
	Yeast Selectable	

SECTION 9: Physical and chemical properties

Explosive properties

Marker	
SureVector LacI	Not available.
Repressor	
SureVector T7-HIS6 E. coli Promoter	Not available.
SureVector CMV-HIS6 Mammalian Promoter	Not available.
SureVector GAL1-HIS6 Yeast Promoter	Not available.
SureVector LacZ Control (N-term)	Not available.
SureVector Enzyme Mix	Not available.
10X SureVector Buffer	Not available.
dNTP Mix	Not available.
DpnI	Not available.
XL1-Blue supercompetent cells	Not available.
pUC 18 DNA Control Plasmid	Not available.
Beta Mercaptoethanol	Not available.
: 5X SureSolution	Not available.
SureVector AmpR Selectable Marker	Not available.
SureVector KanR Selectable Marker	Not available.
SureVector ChIR Selectable Marker	Not available.
SureVector pUC Origin	Not available.
SureVector p15a Origin	Not available.
SureVector pBR322 Origin	Not available.
SureVector XP1 Linker	Not available.
SureVector yARS	Not available.
SureVector XP2 Linker	Not available.
SureVector NeoR Mammalian Selectable Marker	
SureVector LEU2 Yeast Selectable Marker	Not available.
Marker	
SureVector LacI	Not available.
Repressor	
SureVector T7-HIS6 E. coli Promoter	Not available.
SureVector CMV-HIS6 Mammalian Promoter	Not available.
SureVector GAL1-HIS6 Yeast Promoter	Not available.
SureVector LacZ Control (N-term)	Not available.
SureVector Enzyme Mix	Not available.
10X SureVector Buffer	Not available.
dNTP Mix	Not available.
DpnI	Not available.
XL1-Blue supercompetent cells	Not available.
pUC 18 DNA Control Plasmid	Not available.
Beta Mercaptoethanol	Not available.

SECTION 9: Physical and chemical properties

Oxidising properties	: 5X SureSolution	Not available.
	SureVector AmpR	Not available.
	Selectable Marker	
	SureVector KanR	Not available.
	Selectable Marker	
	SureVector ChIR	Not available.
	Selectable Marker	
	SureVector pUC Origin	Not available.
	SureVector p15a Origin	Not available.
	SureVector pBR322	Not available.
	Origin	
	SureVector XP1 Linker	Not available.
	SureVector yARS	Not available.
	SureVector XP2 Linker	Not available.
	SureVector NeoR	Not available.
	Mammalian Selectable	
	Marker	
	SureVector LEU2	Not available.
	Yeast Selectable	
	Marker	
	SureVector LacI	Not available.
	Repressor	
	SureVector T7-HIS6 E.	Not available.
	coli Promoter	
	SureVector CMV-HIS6	Not available.
	Mammalian Promoter	
	SureVector GAL1-HIS6	Not available.
	Yeast Promoter	
	SureVector LacZ	Not available.
	Control (N-term)	
	SureVector Enzyme Mix	Not available.
	10X SureVector Buffer	Not available.
	dNTP Mix	Not available.
	DpnI	Not available.
	XL1-Blue	Not available.
	supercompetent cells	
	pUC 18 DNA Control	Not available.
	Plasmid	
	Beta Mercaptoethanol	Not available.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	: 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 KanR	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 ChIR	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 p15a Origin	No specific test data related to reactivity available for this product or its ingredients.
	SureVector pBR322	No specific test data related to reactivity available for this product or its ingredients.
	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 yARS	No specific test data related to reactivity available for this product or its ingredients.
	SureVector XP2 Linker	No specific test data related to reactivity available for this product or its ingredients.

SECTION 10: Stability and reactivity

SureVector NeoR Mammalian Selectable Marker	product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
SureVector LEU2 Yeast Selectable Marker	No specific test data related to reactivity available for this product or its ingredients.
SureVector LacI 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 CMV-HIS6 Mammalian Promoter	No specific test data related to reactivity available for this product or its ingredients.
SureVector GAL1-HIS6 Yeast Promoter	No specific test data related to reactivity available for this product or its ingredients.
SureVector LacZ Control (N-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.
XL1-Blue supercompetent cells	No specific test data related to reactivity available for this product or its ingredients.
pUC 18 DNA Control Plasmid	No specific test data related to reactivity available for this product or its ingredients.
Beta Mercaptoethanol	No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

: 5X SureSolution	The product is stable.
SureVector AmpR Selectable Marker	The product is stable.
SureVector KanR Selectable Marker	The product is stable.
SureVector ChIR Selectable Marker	The product is stable.
SureVector pUC Origin	The product is stable.
SureVector p15a Origin	The product is stable.
SureVector pBR322 Origin	The product is stable.
SureVector XP1 Linker	The product is stable.
SureVector yARS	The product is stable.
SureVector XP2 Linker	The product is stable.
SureVector NeoR Mammalian Selectable Marker	The product is stable.
SureVector LEU2 Yeast Selectable Marker	The product is stable.
SureVector LacI Repressor	The product is stable.
SureVector T7-HIS6 E. coli Promoter	The product is stable.
SureVector CMV-HIS6 Mammalian Promoter	The product is stable.
SureVector GAL1-HIS6 Yeast Promoter	The product is stable.
SureVector LacZ Control (N-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.

SECTION 10: Stability and reactivity

XL1-Blue supercompetent cells	The product is stable.
pUC 18 DNA Control Plasmid	The product is stable.
Beta Mercaptoethanol	The product is stable.

10.3 Possibility of hazardous reactions

: 5X SureSolution	Under normal conditions of storage and use, hazardous reactions will not occur.
SureVector AmpR Selectable Marker	Under normal conditions of storage and use, hazardous reactions will not occur.
SureVector KanR Selectable Marker	Under normal conditions of storage and use, hazardous reactions will not occur.
SureVector ChIR Selectable Marker	Under normal conditions of storage and use, hazardous reactions will not occur.
SureVector pUC Origin	Under normal conditions of storage and use, hazardous reactions will not occur.
SureVector p15a Origin	Under normal conditions of storage and use, hazardous reactions will not occur.
SureVector pBR322 Origin	Under normal conditions of storage and use, hazardous reactions will not occur.
SureVector XP1 Linker	Under normal conditions of storage and use, hazardous reactions will not occur.
SureVector yARS	Under normal conditions of storage and use, hazardous reactions will not occur.
SureVector XP2 Linker	Under normal conditions of storage and use, hazardous reactions will not occur.
SureVector NeoR Mammalian Selectable Marker	Under normal conditions of storage and use, hazardous reactions will not occur.
SureVector LEU2 Yeast Selectable Marker	Under normal conditions of storage and use, hazardous reactions will not occur.
SureVector LacI Repressor	Under normal conditions of storage and use, hazardous reactions will not occur.
SureVector T7-HIS6 E. coli Promoter	Under normal conditions of storage and use, hazardous reactions will not occur.
SureVector CMV-HIS6 Mammalian Promoter	Under normal conditions of storage and use, hazardous reactions will not occur.
SureVector GAL1-HIS6 Yeast Promoter	Under normal conditions of storage and use, hazardous reactions will not occur.
SureVector LacZ Control (N-term)	Under normal conditions of storage and use, hazardous reactions will not occur.
SureVector Enzyme Mix	Under normal conditions of storage and use, hazardous reactions will not occur.
10X SureVector Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
dNTP Mix	Under normal conditions of storage and use, hazardous reactions will not occur.
DpnI	Under normal conditions of storage and use, hazardous reactions will not occur.
XL1-Blue supercompetent cells	Under normal conditions of storage and use, hazardous reactions will not occur.
pUC 18 DNA Control Plasmid	Under normal conditions of storage and use, hazardous reactions will not occur.
Beta Mercaptoethanol	Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid

: 5X SureSolution	No specific data.
SureVector AmpR Selectable Marker	No specific data.
SureVector KanR Selectable Marker	No specific data.
SureVector ChIR Selectable Marker	No specific data.
SureVector pUC Origin	No specific data.

SECTION 10: Stability and reactivity

SureVector p15a Origin	No specific data.
SureVector pBR322 Origin	No specific data.
SureVector XP1 Linker	No specific data.
SureVector yARS	No specific data.
SureVector XP2 Linker	No specific data.
SureVector NeoR	No specific data.
Mammalian Selectable Marker	
SureVector LEU2 Yeast Selectable Marker	No specific data.
SureVector LacI Repressor	No specific data.
SureVector T7-HIS6 E. coli Promoter	No specific data.
SureVector CMV-HIS6 Mammalian Promoter	No specific data.
SureVector GAL1-HIS6 Yeast Promoter	No specific data.
SureVector LacZ Control (N-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.
XL1-Blue supercompetent cells	No specific data.
pUC 18 DNA Control Plasmid	No specific data.
Beta Mercaptoethanol	No specific data.

10.5 Incompatible materials

: 5X SureSolution	May react or be incompatible with oxidising materials.
SureVector AmpR Selectable Marker	May react or be incompatible with oxidising materials.
SureVector KanR Selectable Marker	May react or be incompatible with oxidising materials.
SureVector ChIR Selectable Marker	May react or be incompatible with oxidising materials.
SureVector pUC Origin	May react or be incompatible with oxidising materials.
SureVector p15a Origin	May react or be incompatible with oxidising materials.
SureVector pBR322 Origin	May react or be incompatible with oxidising materials.
SureVector XP1 Linker	May react or be incompatible with oxidising materials.
SureVector yARS	May react or be incompatible with oxidising materials.
SureVector XP2 Linker	May react or be incompatible with oxidising materials.
SureVector NeoR	May react or be incompatible with oxidising materials.
Mammalian Selectable Marker	
SureVector LEU2 Yeast Selectable Marker	May react or be incompatible with oxidising materials.
SureVector LacI Repressor	May react or be incompatible with oxidising materials.
SureVector T7-HIS6 E. coli Promoter	May react or be incompatible with oxidising materials.
SureVector CMV-HIS6 Mammalian Promoter	May react or be incompatible with oxidising materials.
SureVector GAL1-HIS6 Yeast Promoter	May react or be incompatible with oxidising materials.
SureVector LacZ Control (N-term)	May react or be incompatible with oxidising materials.
SureVector Enzyme Mix	May react or be incompatible with oxidising materials.
10X SureVector Buffer	May react or be incompatible with oxidising materials.
dNTP Mix	May react or be incompatible with oxidising materials.
DpnI	May react or be incompatible with oxidising materials.

SECTION 10: Stability and reactivity

XL1-Blue supercompetent cells May react or be incompatible with oxidising materials.
 pUC 18 DNA Control Plasmid May react or be incompatible with oxidising materials.
 Beta Mercaptoethanol May react or be incompatible with oxidising materials.

10.6 Hazardous decomposition products

: 5X SureSolution Under normal conditions of storage and use, hazardous decomposition products should not be produced.
 SureVector AmpR Selectable Marker Under normal conditions of storage and use, hazardous decomposition products should not be produced.
 SureVector KanR Selectable Marker Under normal conditions of storage and use, hazardous decomposition products should not be produced.
 SureVector ChIR 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 p15a Origin Under normal conditions of storage and use, hazardous decomposition products should not be produced.
 SureVector pBR322 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 yARS Under normal conditions of storage and use, hazardous decomposition products should not be produced.
 SureVector XP2 Linker Under normal conditions of storage and use, hazardous decomposition products should not be produced.
 SureVector NeoR Mammalian Selectable Marker Under normal conditions of storage and use, hazardous decomposition products should not be produced.
 SureVector LEU2 Yeast Selectable Marker Under normal conditions of storage and use, hazardous decomposition products should not be produced.
 SureVector LacI 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 CMV-HIS6 Mammalian Promoter Under normal conditions of storage and use, hazardous decomposition products should not be produced.
 SureVector GAL1-HIS6 Yeast Promoter Under normal conditions of storage and use, hazardous decomposition products should not be produced.
 SureVector LacZ Control (N-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.
 XL1-Blue supercompetent cells Under normal conditions of storage and use, hazardous decomposition products should not be produced.
 pUC 18 DNA Control Plasmid Under normal conditions of storage and use, hazardous decomposition products should not be produced.
 Beta Mercaptoethanol Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
5X SureSolution Dimethyl sulfoxide	LD50 Dermal LD50 Oral	Rat Rat	40000 mg/kg 14500 mg/kg	- -
SureVector Enzyme Mix Poly(oxy-1,2-ethanediyl), . alpha.-[(1,1,3, 3-tetramethylbutyl)phenyl]-. omega.-hydroxy-	LD50 Oral	Rat	2800 mg/kg	-
10X SureVector Buffer Polyoxyethylene octyl phenyl ether	LD50 Oral	Rat	1800 mg/kg	-
Dpnl Sodium chloride	LD50 Oral	Rat	3000 mg/kg	-
Beta Mercaptoethanol 2-Mercaptoethanol	LD50 Dermal LD50 Oral	Rabbit Rat	200 mg/kg 244 mg/kg	- -

Acute toxicity estimates

Route	ATE value
10X SureVector Buffer Oral	180000 mg/kg
XL1-Blue supercompetent cells Oral	31250 mg/kg
Beta Mercaptoethanol Oral Dermal Inhalation (vapours)	2440 mg/kg 2000 mg/kg 20 mg/l

Irritation/Corrosion

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

SECTION 11: Toxicological information

Dpnl Sodium chloride	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	10 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
Beta Mercaptoethanol 2-Mercaptoethanol	Eyes - Severe irritant	Rabbit	-	2 milligrams	-

Sensitiser

Conclusion/Summary : Not available.

Skin : May cause skin sensitisation.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
10X SureVector Buffer 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	Category 3	Not applicable.	Respiratory tract irritation
Beta Mercaptoethanol 2-Mercaptoethanol	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 KanR Selectable Marker	Not available.
SureVector ChIR Selectable Marker	Not available.
SureVector pUC Origin	Not available.
SureVector p15a Origin	Not available.
SureVector pBR322 Origin	Not available.
SureVector XP1 Linker	Not available.
SureVector yARS	Not available.
SureVector XP2 Linker	Not available.
SureVector NeoR Mammalian Selectable Marker	Not available.
SureVector LEU2 Yeast Selectable Marker	Not available.
SureVector LacI Repressor	Not available.
SureVector T7-HIS6 E. coli Promoter	Not available.
SureVector CMV-HIS6 Mammalian Promoter	Not available.
SureVector GAL1-HIS6 Yeast Promoter	Not available.
SureVector LacZ Control (N-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.
Dpnl	Routes of entry anticipated: Oral, Dermal, Inhalation.

SECTION 11: Toxicological information

XL1-Blue supercompetent cells Routes of entry anticipated: Oral, Dermal, Inhalation.
 pUC 18 DNA Control Plasmid Not available.
 Beta Mercaptoethanol 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 KanR Selectable Marker No known significant effects or critical hazards.
 SureVector ChIR Selectable Marker No known significant effects or critical hazards.
 SureVector pUC Origin No known significant effects or critical hazards.
 SureVector p15a Origin No known significant effects or critical hazards.
 SureVector pBR322 Origin No known significant effects or critical hazards.
 SureVector XP1 Linker No known significant effects or critical hazards.
 SureVector yARS No known significant effects or critical hazards.
 SureVector XP2 Linker No known significant effects or critical hazards.
 SureVector NeoR Mammalian Selectable Marker No known significant effects or critical hazards.
 SureVector LEU2 Yeast Selectable Marker No known significant effects or critical hazards.
 SureVector LacI Repressor No known significant effects or critical hazards.
 SureVector T7-HIS6 E. coli Promoter No known significant effects or critical hazards.
 SureVector CMV-HIS6 Mammalian Promoter No known significant effects or critical hazards.
 SureVector GAL1-HIS6 Yeast Promoter No known significant effects or critical hazards.
 SureVector LacZ Control (N-term) No known significant effects or critical hazards.
 SureVector Enzyme Mix 10X SureVector Buffer dNTP Mix No known significant effects or critical hazards.
 DpnI No known significant effects or critical hazards.
 XL1-Blue supercompetent cells No known significant effects or critical hazards.
 pUC 18 DNA Control Plasmid No known significant effects or critical hazards.
 Beta Mercaptoethanol Harmful if inhaled.

Ingestion

: 5X SureSolution No known significant effects or critical hazards.
 SureVector AmpR Selectable Marker No known significant effects or critical hazards.
 SureVector KanR Selectable Marker No known significant effects or critical hazards.
 SureVector ChIR Selectable Marker No known significant effects or critical hazards.
 SureVector pUC Origin No known significant effects or critical hazards.
 SureVector p15a Origin No known significant effects or critical hazards.
 SureVector pBR322 Origin No known significant effects or critical hazards.
 SureVector XP1 Linker No known significant effects or critical hazards.
 SureVector yARS No known significant effects or critical hazards.
 SureVector XP2 Linker No known significant effects or critical hazards.
 SureVector NeoR Mammalian Selectable Marker No known significant effects or critical hazards.
 SureVector LEU2 Yeast Selectable Marker No known significant effects or critical hazards.

SECTION 11: Toxicological information

	SureVector LacI Repressor	No known significant effects or critical hazards.
	SureVector T7-HIS6 E. coli Promoter	No known significant effects or critical hazards.
	SureVector CMV-HIS6 Mammalian Promoter	No known significant effects or critical hazards.
	SureVector GAL1-HIS6 Yeast Promoter	No known significant effects or critical hazards.
	SureVector LacZ Control (N-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.
	XL1-Blue supercompetent cells	No known significant effects or critical hazards.
	pUC 18 DNA Control Plasmid	No known significant effects or critical hazards.
	Beta Mercaptoethanol	No known significant effects or critical hazards.
Skin contact	: 5X SureSolution	No known significant effects or critical hazards.
	SureVector AmpR Selectable Marker	No known significant effects or critical hazards.
	SureVector KanR Selectable Marker	No known significant effects or critical hazards.
	SureVector ChIR Selectable Marker	No known significant effects or critical hazards.
	SureVector pUC Origin	No known significant effects or critical hazards.
	SureVector p15a Origin	No known significant effects or critical hazards.
	SureVector pBR322 Origin	No known significant effects or critical hazards.
	SureVector XP1 Linker	No known significant effects or critical hazards.
	SureVector yARS	No known significant effects or critical hazards.
	SureVector XP2 Linker	No known significant effects or critical hazards.
	SureVector NeoR Mammalian Selectable Marker	No known significant effects or critical hazards.
	SureVector LEU2 Yeast Selectable Marker	No known significant effects or critical hazards.
	SureVector LacI Repressor	No known significant effects or critical hazards.
	SureVector T7-HIS6 E. coli Promoter	No known significant effects or critical hazards.
	SureVector CMV-HIS6 Mammalian Promoter	No known significant effects or critical hazards.
	SureVector GAL1-HIS6 Yeast Promoter	No known significant effects or critical hazards.
	SureVector LacZ Control (N-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.
	XL1-Blue supercompetent cells	No known significant effects or critical hazards.
	pUC 18 DNA Control Plasmid	No known significant effects or critical hazards.
	Beta Mercaptoethanol	Harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction.

SECTION 11: Toxicological information

Eye contact	: 5X SureSolution SureVector AmpR Selectable Marker SureVector KanR Selectable Marker SureVector ChIR Selectable Marker SureVector pUC Origin SureVector p15a Origin SureVector pBR322 Origin SureVector XP1 Linker SureVector yARS SureVector XP2 Linker SureVector NeoR Mammalian Selectable Marker SureVector LEU2 Yeast Selectable Marker SureVector LacI Repressor SureVector T7-HIS6 E. coli Promoter SureVector CMV-HIS6 Mammalian Promoter SureVector GAL1-HIS6 Yeast Promoter SureVector LacZ Control (N-term) SureVector Enzyme Mix 10X SureVector Buffer dNTP Mix DpnI XL1-Blue supercompetent cells pUC 18 DNA Control Plasmid Beta Mercaptoethanol	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. 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. Causes serious eye irritation. 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. Causes serious eye damage.
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Symptoms related to the physical, chemical and toxicological characteristics

Inhalation	: 5X SureSolution SureVector AmpR Selectable Marker SureVector KanR Selectable Marker SureVector ChIR Selectable Marker SureVector pUC Origin SureVector p15a Origin SureVector pBR322 Origin SureVector XP1 Linker SureVector yARS SureVector XP2 Linker SureVector NeoR Mammalian Selectable Marker SureVector LEU2 Yeast Selectable Marker SureVector LacI Repressor SureVector T7-HIS6 E. coli Promoter SureVector CMV-HIS6 Mammalian Promoter	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data.
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SECTION 11: Toxicological information

	SureVector GAL1-HIS6 Yeast Promoter	No specific data.
	SureVector LacZ Control (N-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.
	XL1-Blue	No specific data.
	supercompetent cells	
	pUC 18 DNA Control Plasmid	No specific data.
	Beta Mercaptoethanol	No specific data.
Ingestion	: 5X SureSolution	No specific data.
	SureVector AmpR	No specific data.
	Selectable Marker	
	SureVector KanR	No specific data.
	Selectable Marker	
	SureVector ChIR	No specific data.
	Selectable Marker	
	SureVector pUC Origin	No specific data.
	SureVector p15a Origin	No specific data.
	SureVector pBR322	No specific data.
	Origin	
	SureVector XP1 Linker	No specific data.
	SureVector yARS	No specific data.
	SureVector XP2 Linker	No specific data.
	SureVector NeoR	No specific data.
	Mammalian Selectable Marker	
	SureVector LEU2 Yeast	No specific data.
	Selectable Marker	
	SureVector LacI	No specific data.
	Repressor	
	SureVector T7-HIS6 E. coli Promoter	No specific data.
	SureVector CMV-HIS6	No specific data.
	Mammalian Promoter	
	SureVector GAL1-HIS6	No specific data.
	Yeast Promoter	
	SureVector LacZ Control (N-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.
	XL1-Blue	No specific data.
	supercompetent cells	
	pUC 18 DNA Control Plasmid	No specific data.
	Beta Mercaptoethanol	Adverse symptoms may include the following: stomach pains
Skin contact	: 5X SureSolution	No specific data.
	SureVector AmpR	No specific data.
	Selectable Marker	
	SureVector KanR	No specific data.
	Selectable Marker	
	SureVector ChIR	No specific data.
	Selectable Marker	
	SureVector pUC Origin	No specific data.
	SureVector p15a Origin	No specific data.
	SureVector pBR322	No specific data.
	Origin	
	SureVector XP1 Linker	No specific data.

SECTION 11: Toxicological information

SureVector yARS	No specific data.
SureVector XP2 Linker	No specific data.
SureVector NeoR	No specific data.
Mammalian Selectable Marker	
SureVector LEU2 Yeast Selectable Marker	No specific data.
SureVector LacI Repressor	No specific data.
SureVector T7-HIS6 E. coli Promoter	No specific data.
SureVector CMV-HIS6 Mammalian Promoter	No specific data.
SureVector GAL1-HIS6 Yeast Promoter	No specific data.
SureVector LacZ Control (N-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.
XL1-Blue	No specific data.
supercompetent cells	
pUC 18 DNA Control Plasmid	No specific data.
Beta Mercaptoethanol	Adverse symptoms may include the following: pain or irritation redness blistering may occur
Eye contact :	
5X SureSolution	No specific data.
SureVector AmpR Selectable Marker	No specific data.
SureVector KanR Selectable Marker	No specific data.
SureVector ChIR Selectable Marker	No specific data.
SureVector pUC Origin	No specific data.
SureVector p15a Origin	No specific data.
SureVector pBR322 Origin	No specific data.
SureVector XP1 Linker	No specific data.
SureVector yARS	No specific data.
SureVector XP2 Linker	No specific data.
SureVector NeoR	No specific data.
Mammalian Selectable Marker	
SureVector LEU2 Yeast Selectable Marker	No specific data.
SureVector LacI Repressor	No specific data.
SureVector T7-HIS6 E. coli Promoter	No specific data.
SureVector CMV-HIS6 Mammalian Promoter	No specific data.
SureVector GAL1-HIS6 Yeast Promoter	No specific data.
SureVector LacZ Control (N-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.

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DpnI	No specific data.
XL1-Blue	No specific data.
supercompetent cells	
pUC 18 DNA Control	No specific data.
Plasmid	
Beta Mercaptoethanol	Adverse symptoms may include the following: pain watering redness

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.

Potential delayed effects : Not available.

Potential chronic health effects

General	: 5X SureSolution	No known significant effects or critical hazards.
	SureVector AmpR	No known significant effects or critical hazards.
	Selectable Marker	
	SureVector KanR	No known significant effects or critical hazards.
	Selectable Marker	
	SureVector ChIR	No known significant effects or critical hazards.
	Selectable Marker	
	SureVector pUC Origin	No known significant effects or critical hazards.
	SureVector p15a Origin	No known significant effects or critical hazards.
	SureVector pBR322	No known significant effects or critical hazards.
	Origin	
	SureVector XP1 Linker	No known significant effects or critical hazards.
	SureVector yARS	No known significant effects or critical hazards.
	SureVector XP2 Linker	No known significant effects or critical hazards.
	SureVector NeoR	No known significant effects or critical hazards.
	Mammalian Selectable	
	Marker	
	SureVector LEU2 Yeast	No known significant effects or critical hazards.
	Selectable Marker	
	SureVector LacI	No known significant effects or critical hazards.
	Repressor	
	SureVector T7-HIS6 E.	No known significant effects or critical hazards.
	coli Promoter	
	SureVector CMV-HIS6	No known significant effects or critical hazards.
	Mammalian Promoter	
	SureVector GAL1-HIS6	No known significant effects or critical hazards.
	Yeast Promoter	
	SureVector LacZ Control	No known significant effects or critical hazards.
	(N-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.
	XL1-Blue	No known significant effects or critical hazards.
	supercompetent cells	
	pUC 18 DNA Control	No known significant effects or critical hazards.
	Plasmid	
	Beta Mercaptoethanol	Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

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	Yeast Promoter	
	SureVector LacZ Control (N-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.
	XL1-Blue supercompetent cells	No known significant effects or critical hazards.
	pUC 18 DNA Control Plasmid	No known significant effects or critical hazards.
	Beta Mercaptoethanol	No known significant effects or critical hazards.
Teratogenicity	: 5X SureSolution	No known significant effects or critical hazards.
	SureVector AmpR Selectable Marker	No known significant effects or critical hazards.
	SureVector KanR Selectable Marker	No known significant effects or critical hazards.
	SureVector ChIR Selectable Marker	No known significant effects or critical hazards.
	SureVector pUC Origin	No known significant effects or critical hazards.
	SureVector p15a Origin	No known significant effects or critical hazards.
	SureVector pBR322 Origin	No known significant effects or critical hazards.
	SureVector XP1 Linker	No known significant effects or critical hazards.
	SureVector yARS	No known significant effects or critical hazards.
	SureVector XP2 Linker	No known significant effects or critical hazards.
	SureVector NeoR Mammalian Selectable Marker	No known significant effects or critical hazards.
	SureVector LEU2 Yeast Selectable Marker	No known significant effects or critical hazards.
	SureVector LacI Repressor	No known significant effects or critical hazards.
	SureVector T7-HIS6 E. coli Promoter	No known significant effects or critical hazards.
	SureVector CMV-HIS6 Mammalian Promoter	No known significant effects or critical hazards.
	SureVector GAL1-HIS6 Yeast Promoter	No known significant effects or critical hazards.
	SureVector LacZ Control (N-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.
	XL1-Blue supercompetent cells	No known significant effects or critical hazards.
	pUC 18 DNA Control Plasmid	No known significant effects or critical hazards.
	Beta Mercaptoethanol	No known significant effects or critical hazards.
Developmental effects	: 5X SureSolution	No known significant effects or critical hazards.
	SureVector AmpR Selectable Marker	No known significant effects or critical hazards.
	SureVector KanR Selectable Marker	No known significant effects or critical hazards.
	SureVector ChIR Selectable Marker	No known significant effects or critical hazards.
	SureVector pUC Origin	No known significant effects or critical hazards.
	SureVector p15a Origin	No known significant effects or critical hazards.
	SureVector pBR322 Origin	No known significant effects or critical hazards.
	SureVector XP1 Linker	No known significant effects or critical hazards.
	SureVector yARS	No known significant effects or critical hazards.
	SureVector XP2 Linker	No known significant effects or critical hazards.

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	SureVector NeoR Mammalian Selectable Marker	No known significant effects or critical hazards.
	SureVector LEU2 Yeast Selectable Marker	No known significant effects or critical hazards.
	SureVector LacI Repressor	No known significant effects or critical hazards.
	SureVector T7-HIS6 E. coli Promoter	No known significant effects or critical hazards.
	SureVector CMV-HIS6 Mammalian Promoter	No known significant effects or critical hazards.
	SureVector GAL1-HIS6 Yeast Promoter	No known significant effects or critical hazards.
	SureVector LacZ Control (N-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.
	XL1-Blue supercompetent cells	No known significant effects or critical hazards.
	pUC 18 DNA Control Plasmid	No known significant effects or critical hazards.
	Beta Mercaptoethanol	No known significant effects or critical hazards.
Fertility effects	: 5X SureSolution	No known significant effects or critical hazards.
	SureVector AmpR Selectable Marker	No known significant effects or critical hazards.
	SureVector KanR Selectable Marker	No known significant effects or critical hazards.
	SureVector ChIR Selectable Marker	No known significant effects or critical hazards.
	SureVector pUC Origin	No known significant effects or critical hazards.
	SureVector p15a Origin	No known significant effects or critical hazards.
	SureVector pBR322 Origin	No known significant effects or critical hazards.
	SureVector XP1 Linker	No known significant effects or critical hazards.
	SureVector yARS	No known significant effects or critical hazards.
	SureVector XP2 Linker	No known significant effects or critical hazards.
	SureVector NeoR Mammalian Selectable Marker	No known significant effects or critical hazards.
	SureVector LEU2 Yeast Selectable Marker	No known significant effects or critical hazards.
	SureVector LacI Repressor	No known significant effects or critical hazards.
	SureVector T7-HIS6 E. coli Promoter	No known significant effects or critical hazards.
	SureVector CMV-HIS6 Mammalian Promoter	No known significant effects or critical hazards.
	SureVector GAL1-HIS6 Yeast Promoter	No known significant effects or critical hazards.
	SureVector LacZ Control (N-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.
	XL1-Blue supercompetent cells	No known significant effects or critical hazards.
	pUC 18 DNA Control Plasmid	No known significant effects or critical hazards.
	Beta Mercaptoethanol	No known significant effects or critical hazards.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
5X SureSolution 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
SureVector Enzyme Mix 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
10X SureVector Buffer 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
Dpnl Sodium chloride	Acute EC50 2430000 µg/l Fresh water	Algae - Navicula seminulum	96 hours
	Acute EC50 28.85 mg/dm ³ 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
	Acute LC50 1000000 µg/l Fresh water	Fish - Morone saxatilis - Larvae	96 hours
	Chronic LC10 781 mg/l Fresh water	Crustaceans - Hyalella azteca - Juvenile (Fledgling, Hatchling, Weanling)	3 weeks
Chronic NOEC 6 g/L Fresh water	Aquatic plants - Lemna minor	96 hours	
Chronic NOEC 0.314 g/L Fresh water	Daphnia - Daphnia pulex	21 days	
Chronic NOEC 100 mg/l Fresh water	Fish - Gambusia holbrooki - Adult	8 weeks	

12.2 Persistence and degradability

Not available.

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

12.3 Bioaccumulative potential

SECTION 12: Ecological information

Product/ingredient name	LogP _{ow}	BCF	Potential
5X SureSolution Dimethyl sulfoxide	-1.35	3.16	low
SureVector Enzyme Mix Poly(oxy-1,2-ethanediyl), . alpha.-[(1,1,3, 3-tetramethylbutyl)phenyl]-. omega.-hydroxy-	3.77	78.67	low
10X SureVector Buffer Polyoxyethylene octyl phenyl ether	4.86	-	high
Beta Mercaptoethanol 2-Mercaptoethanol	-0.056	-	low

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : 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.

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 spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

Regulatory 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.

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SECTION 14: Transport information

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
SureVector Enzyme Mix 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
10X SureVector Buffer 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 KanR Selectable Marker	Not applicable.
SureVector ChIR Selectable Marker	Not applicable.
SureVector pUC Origin	Not applicable.
SureVector p15a Origin	Not applicable.
SureVector pBR322 Origin	Not applicable.
SureVector XP1 Linker	Not applicable.
SureVector yARS	Not applicable.
SureVector XP2 Linker	Not applicable.
SureVector NeoR	Not applicable.
Mammalian Selectable Marker	
SureVector LEU2 Yeast Selectable Marker	Not applicable.
SureVector LacI Repressor	Not applicable.
SureVector T7-HIS6 E. coli Promoter	Not applicable.
SureVector CMV-HIS6 Mammalian Promoter	Not applicable.
SureVector GAL1-HIS6 Yeast Promoter	Not applicable.
SureVector LacZ Control (N-term)	Not applicable.
SureVector Enzyme Mix	Not applicable.
10X SureVector Buffer	Not applicable.
dNTP Mix	Not applicable.
DpnI	Not applicable.
XL1-Blue supercompetent cells	Not applicable.
pUC 18 DNA Control Plasmid	Not applicable.
Beta Mercaptoethanol	Not applicable.

[Other EU regulations](#)

Europe inventory : All components are listed or exempted.

Date of issue/Date of revision : 25/04/2017

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SECTION 15: Regulatory information

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.

International lists

National inventory

Australia	: <input checked="" type="checkbox"/> Not determined.
Canada	: <input checked="" type="checkbox"/> Not determined.
China	: Not determined.
Japan	: <input checked="" type="checkbox"/> Japan inventory (ENCS) : Not determined. Japan inventory (ISHL) : Not determined.
Malaysia	: <input checked="" type="checkbox"/> Not determined.
New Zealand	: <input checked="" type="checkbox"/> Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: All components are listed or exempted.
Turkey	: Not determined.
United States	: All components are listed or exempted.

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

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]

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SECTION 16: Other information

Classification	Justification
10X SureVector Buffer Eye Irrit. 2, H319 Beta Mercaptoethanol Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412	Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method

[Full text of abbreviated H statements](#)

SureVector Enzyme Mix H315 H318 H411 10X SureVector Buffer H302 H315 H318 H319 H335 H411 Dpnl H319 Beta Mercaptoethanol H301 H310 H312 H315 H317 H318 H330 H332 H335 H411 H412	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. Toxic if swallowed. Fatal in contact with skin. Harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Fatal if inhaled. Harmful if inhaled. May cause respiratory irritation. Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects.
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[Full text of classifications \[CLP/GHS\]](#)

SureVector Enzyme Mix Aquatic Chronic 2, H411 Eye Dam. 1, H318 Skin Irrit. 2, H315 10X SureVector Buffer Acute Tox. 4, H302 Aquatic Chronic 2, H411 Eye Dam. 1, H318 Eye Irrit. 2, H319 Skin Irrit. 2, H315 STOT SE 3, H335 Dpnl Eye Irrit. 2, H319 Beta Mercaptoethanol Acute Tox. 2, H310 Acute Tox. 2, H330	LONG-TERM AQUATIC HAZARD - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SKIN CORROSION/IRRITATION - Category 2 ACUTE TOXICITY (oral) - Category 4 LONG-TERM 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 ACUTE TOXICITY (dermal) - Category 2 ACUTE TOXICITY (inhalation) - Category 2
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SECTION 16: Other information

Acute Tox. 3, H301 Acute Tox. 4, H312 Acute Tox. 4, H332 Aquatic Chronic 2, H411 Aquatic Chronic 3, H412 Eye Dam. 1, H318 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335	ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 LONG-TERM AQUATIC HAZARD - Category 2 LONG-TERM AQUATIC HAZARD - Category 3 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3
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Date of issue/ Date of revision : 25/04/2017

Date of previous issue : 18/10/2016.

Version : 2

Notice to reader

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