SAFETY DATA SHEET



SureVector E. coli Selection Kit, Part Number G7518A

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

1.1 Product identifier

Product name : SureVector E. coli Selection Kit, Part Number G7518A

CAS number : 5X SureSolution 67-68-5 SureVector AmpR Not applicable.

Selectable Marker

SureVector KanR Not applicable.

Selectable Marker

SureVector ChIR Not applicable.

Selectable Marker

SureVector pUC Origin
SureVector XP1 Linker
SureVector Lacl
Not applicable.
Not applicable.

Repressor

SureVector T7-HIS6 E. Not applicable.

coli Promoter

SureVector LacZ Control Not applicable.

(N-term)

SureVector Enzyme Mix
10X SureVector Buffer
dNTP Mix
Dpnl

Not applicable.
Not applicable.
Not applicable.
Not applicable.

Part no. (chemical kit) : G7518A

Part no. : 5X SureSolution 5190-8625 SureVector AmpR 5190-8807

Selectable Marker

SureVector KanR 5190-8808

Selectable Marker

SureVector ChIR 5190-8809

Selectable Marker

SureVector pUC Origin 5190-8810 SureVector XP1 Linker 5190-8811 SureVector Lacl 5190-8812

Repressor

SureVector T7-HIS6 E. 5190-8813

coli Promoter

SureVector LacZ Control 5190-8814

(N-term)

DpnI

SureVector Enzyme Mix 5190-8621 10X SureVector Buffer 5190-8622 dNTP Mix 200518-56

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

Material uses : Analytical reagent.

5X SureSolution 0.1 ml (15 reactions) SureVector AmpR Selectable Marker 0.01 ml (5 reactions) SureVector KanR Selectable Marker 0.01 ml (5 reactions) SureVector ChIR Selectable Marker 0.01 ml (5 reactions) SureVector pUC Origin 0.01 ml (5 reactions) SureVector XP1 Linker 0.01 ml (5 reactions) 0.01 ml (5 reactions) SureVector Lacl Repressor SureVector T7-HIS6 E. coli Promoter 0.01 ml (5 reactions) SureVector LacZ Control (N-term) 0.01 ml (5 reactions) SureVector Enzyme Mix 0.015 ml (15 reactions) 10X SureVector Buffer 0.03 ml (15 reactions)

5190-8624

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

dNTP Mix 0.03 ml

DpnI 0.03 ml (15 reactions)

1.3 Details of the supplier of the safety data sheet

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

e-mail address of person : pdl-msds_author@agilent.com

responsible for this SDS

1.4 Emergency telephone number

Emergency telephone : CHEMTREC®: +(44)-870-8200418

number (with hours of

operation)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : 5X SureSolution Mono-constituent substance

SureVector AmpR Mixture

Selectable Marker

SureVector KanR Mixture

Selectable Marker

SureVector ChIR Mixture

Selectable Marker

SureVector pUC Origin Mixture
SureVector XP1 Linker Mixture
SureVector Lacl Mixture

Repressor

SureVector T7-HIS6 E. Mixture

coli Promoter

SureVector LacZ Control Mixture

(N-term)

SureVector Enzyme Mix
10X SureVector Buffer
dNTP Mix
Dpnl

Mixture
Mixture
Mixture
Mixture

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

10X SureVector Buffer

H319 SERIOUS EYE DAMAGE/EYE IRRITATION Category 2

Ingredients of unknown

toxicity

: SureVector Enzyme Mix Percentage of the mixture consisting of ingredient(s) of

unknown acute inhalation toxicity: 30 - 60%

10X SureVector Buffer Percentage of the mixture consisting of ingredient(s) of

unknown acute dermal toxicity: 1 - 10%

Percentage of the mixture consisting of ingredient(s) of

unknown acute inhalation toxicity: 1 - 10%

DpnI Percentage of the mixture consisting of ingredient(s) of

unknown acute inhalation toxicity: 30 - 60%

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

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SECTION 2: Hazards identification

: 10X SureVector Buffer **Hazard pictograms**



Signal word

5X SureSolution SureVector AmpR

Selectable Marker SureVector KanR

Selectable Marker SureVector ChIR

Selectable Marker SureVector pUC Origin

SureVector XP1 Linker SureVector LacI

Repressor

SureVector T7-HIS6 E. coli Promoter

SureVector LacZ Control

(N-term)

SureVector Enzyme Mix 10X SureVector Buffer dNTP Mix

DpnI

No signal word. No signal word.

No signal word.

No signal word.

No signal word. No signal word. No signal word.

No signal word.

No signal word.

No signal word. Warning

No signal word. No signal word.

Hazard statements

5X SureSolution SureVector AmpR Selectable Marker SureVector KanR Selectable Marker SureVector ChIR Selectable Marker

SureVector pUC Origin SureVector XP1 Linker SureVector Lacl

Repressor

SureVector T7-HIS6 E.

coli Promoter

SureVector LacZ Control (N-term)

SureVector Enzyme Mix

10X SureVector Buffer dNTP Mix

DpnI

No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

H319 - Causes serious eye irritation.

No known significant effects or critical hazards. No known significant effects or critical hazards.

Precautionary statements Prevention

5X SureSolution SureVector AmpR

Selectable Marker

SureVector KanR Not applicable.

Selectable Marker SureVector ChIR

Selectable Marker SureVector pUC Origin SureVector XP1 Linker

SureVector Lacl Repressor

SureVector T7-HIS6 E. coli Promoter

SureVector LacZ Control (N-term)

SureVector Enzyme Mix 10X SureVector Buffer

Not applicable.

Not applicable. Not applicable.

Not applicable. Not applicable. Not applicable.

Not applicable.

Not applicable.

Not applicable.

P280 - Wear eye or face protection.

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SECTION 2: Hazards identification

SECTION 2: Hazards	identification	
	dNTP Mix Dpnl	Not applicable. Not applicable.
Response :	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 XP1 Linker	Not applicable.
	SureVector Lacl	Not applicable.
	Repressor	
	SureVector T7-HIS6 E. coli Promoter	Not applicable.
	SureVector LacZ Control	Not applicable.
	(N-term)	Nat applicable
	SureVector Enzyme Mix 10X SureVector Buffer	Not applicable. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with
	Tox Care vocal Barrer	water for several minutes. Remove contact lenses, if
		present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice
		or attention.
	dNTP Mix	Not applicable.
	Dpnl	Not applicable.
Storage :	5X SureSolution	Not applicable.
	SureVector AmpR	Not applicable.
	Selectable Marker	
	SureVector KanR	Not applicable.
	Selectable Marker	A
	SureVector ChIR Selectable Marker	Not applicable.
	SureVector pUC Origin	Not applicable.
	SureVector XP1 Linker	Not applicable.
	SureVector Lacl	Not applicable.
	Repressor	AL (P. II
	SureVector T7-HIS6 E.	Not applicable.
	coli Promoter	Not applicable
	SureVector LacZ Control (N-term)	Not applicable.
	SureVector Enzyme Mix	Not applicable.
	10X SureVector Buffer	Not applicable.
	dNTP Mix	Not applicable.
	Dpnl	Not applicable.
Disposal :	5X SureSolution	Not applicable.
•	SureVector AmpR	Not applicable.
	Selectable Marker	
	SureVector KanR	Not applicable.
	Selectable Marker	Not applicable
	SureVector ChIR Selectable Marker	Not applicable.
	SureVector pUC Origin	Not applicable.
	SureVector XP1 Linker	Not applicable.
	SureVector Lacl	Not applicable.
	Repressor	Nist soulisable
	SureVector T7-HIS6 E. coli Promoter	Not applicable.
	SureVector LacZ Control	Not applicable.
	(N-term)	rat applicable.
	SureVector Enzyme Mix	Not applicable.
	10X SureVector Buffer	Not applicable.
	dNTP Mix	Not applicable.

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SECTION 2: Hazards identification

Hazardous ingredients

Supplemental label

elements

SureVector Enzyme Mix 10X SureVector Buffer

Donl

DpnI

Not applicable. Not applicable. Not applicable.

Not applicable.

Not applicable.

Not applicable.

SureVector AmpR Selectable Marker

5X SureSolution

SureVector KanR

Not applicable.

Selectable Marker

SureVector ChIR

Not applicable.

Selectable Marker

SureVector pUC Origin SureVector XP1 Linker SureVector Lacl

Not applicable. Not applicable. Not applicable.

Repressor

SureVector T7-HIS6 E.

coli Promoter

Not applicable.

SureVector LacZ Control

(N-term)

Not applicable.

SureVector Enzyme Mix

10X SureVector Buffer

Not applicable. Not applicable.

dNTP Mix

Not applicable.

DpnI

Safety data sheet available on request.

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

Not applicable.

Selectable Marker

SureVector ChIR

Not applicable.

Selectable Marker SureVector pUC Origin

Not applicable. SureVector XP1 Linker Not applicable. Not applicable.

Repressor

SureVector T7-HIS6 E.

coli Promoter

Not applicable.

SureVector Lacl

SureVector LacZ Control

Not applicable.

(N-term)

SureVector Enzyme Mix

10X SureVector Buffer

Not applicable. Not applicable. Not applicable.

dNTP Mix DpnI

Not applicable.

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 XP1 Linker Not applicable. SureVector Lacl Not applicable.

Repressor

SureVector T7-HIS6 E. Not applicable.

coli Promoter

SureVector LacZ Control Not applicable.

(N-term) SureVector Enzyme Mix Not applicable.

10X SureVector Buffer Not applicable. dNTP Mix Not applicable.

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SECTION 2: Hazards identification

DpnI Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

PBT	Р	В	Т	vPvB	νP	vB	
5X SureSoluti	ion						
No	N/A	No	No	No	N/A	No	

SureVector AmpR This mixture does not contain any substances that are Selectable Marker assessed to be a PBT or a vPvB. This mixture does not contain any substances that are SureVector KanR Selectable Marker assessed to be a PBT or a vPvB. SureVector ChIR This mixture does not contain any substances that are Selectable Marker assessed to be a PBT or a vPvB. SureVector pUC Origin This mixture does not contain any substances that are assessed to be a PBT or a vPvB. SureVector XP1 Linker This mixture does not contain any substances that are assessed to be a PBT or a vPvB. SureVector Lacl This mixture does not contain any substances that are Repressor assessed to be a PBT or a vPvB. SureVector T7-HIS6 E. This mixture does not contain any substances that are coli Promoter assessed to be a PBT or a vPvB. This mixture does not contain any substances that are SureVector LacZ Control (N-term) assessed to be a PBT or a vPvB. SureVector Enzyme Mix This mixture does not contain any substances that are assessed to be a PBT or a vPvB. 10X SureVector Buffer This mixture does not contain any substances that are assessed to be a PBT or a vPvB. This mixture does not contain any substances that are dNTP Mix assessed to be a PBT or a vPvB. This mixture does not contain any substances that are DpnI

assessed to be a PBT or a vPvB.

Other hazards which do not result in classification

5X SureSolution None known. SureVector AmpR None known. Selectable Marker SureVector KanR None known. Selectable Marker SureVector ChIR None known. Selectable Marker SureVector pUC Origin None known. SureVector XP1 Linker None known. SureVector Lacl None known. Repressor SureVector T7-HIS6 E. None known. coli Promoter SureVector LacZ Control None known. (N-term) SureVector Enzyme Mix None known. 10X SureVector Buffer None known. dNTP Mix None known. Dpnl None known.

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SECTION 3: Composition/information on ingredients

		CAS

: 5X SureSolution Mono-constituent substance SureVector AmpR Selectable Mixture Marker SureVector KanR Selectable Mixture Marker SureVector ChIR Selectable Mixture Marker SureVector pUC Origin Mixture SureVector XP1 Linker Mixture SureVector LacI Repressor Mixture SureVector T7-HIS6 E. coli Mixture Promoter SureVector LacZ Control (N-term) Mixture SureVector Enzyme Mix Mixture 10X SureVector Buffer Mixture dNTP Mix Mixture DpnI Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
5X SureSolution Dimethyl sulfoxide	EC: 200-664-3 CAS: 67-68-5	100	Not classified.	[A]
SureVector Enzyme Mix Glycerol	REACH #: Annex V 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] omegahydroxy-	CAS: 9036-19-5	<0.25	Eye Irrit. 2, H319 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1] [5]
10X SureVector Buffer Ammonium sulphate	EC: 231-984-1 CAS: 7783-20-2	≤3	Eye Irrit. 2, H319	[1]
Polyoxyethylene octyl phenyl ether	CAS: 9002-93-1	<2.5	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411	[1] [5]
Dpnl				
Glycerol	REACH #: Annex V 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]
			See Section 16 for the full text of the H statements declared above.	

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

Type

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SECTION 3: Composition/information on ingredients

- [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
- [6] Additional disclosure due to company policy
- [A] Constituent
- [B] Impurity
- [C] Stabilising additive

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact : 5X SureSolution

SureVector AmpR Selectable Marker

SureVector KanR Selectable Marker

SureVector ChIR Selectable Marker

SureVector pUC Origin

SureVector XP1 Linker

SureVector Lacl Repressor

SureVector T7-HIS6 E. coli Promoter

SureVector LacZ Control

(N-term)

SureVector Enzyme Mix

10X SureVector Buffer

dNTP Mix

DpnI

Inhalation : 5X SureSolution

SureVector AmpR Selectable Marker

SureVector KanR Selectable Marker lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. Immediately flush eyes with plenty of water, occasionally

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. Immediately flush eyes with plenty of water, occasionally

lifting the upper and lower eyelids. Check for and remove

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. Immediately flush eyes with plenty of water, occasionally

lifting the upper and lower eyelids. Check for and remove

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.

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.

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove

Immediately flush eyes with plenty of water, occasionally

Immediately flush eyes with plenty of water, occasionally

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.

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.

lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

any contact lenses. Get medical attention if irritation occurs.

any contact lenses. Get medical attention if irritation occurs.

any contact lenses. Get medical attention if irritation occurs.

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. 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.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if

symptoms occur.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if

symptoms occur.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if

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SECTION 4: First aid measures

symptoms occur.

SureVector ChIR Remove victim to fresh air and keep at rest in a position Selectable Marker comfortable for breathing. Get medical attention if

symptoms occur.

SureVector pUC Origin Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Get medical attention if

symptoms occur.

SureVector XP1 Linker Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Get medical attention if

symptoms occur.

Remove victim to fresh air and keep at rest in a position SureVector Lacl Repressor

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 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-tomouth 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.

DpnI Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Get medical attention if

symptoms occur.

Flush contaminated skin with plenty of water. Remove **Skin contact** : 5X SureSolution

contaminated clothing and shoes. Get medical attention if

symptoms occur.

Flush contaminated skin with plenty of water. Remove SureVector AmpR Selectable Marker contaminated clothing and shoes. Get medical attention if

symptoms occur.

SureVector KanR Flush contaminated skin with plenty of water. Remove Selectable Marker contaminated clothing and shoes. Get medical attention if

symptoms occur.

SureVector ChIR Flush contaminated skin with plenty of water. Remove Selectable Marker contaminated clothing and shoes. Get medical attention if

symptoms occur.

SureVector pUC Origin Flush contaminated skin with plenty of water. Remove

contaminated clothing and shoes. Get medical attention if

symptoms occur.

SureVector XP1 Linker Flush contaminated skin with plenty of water. Remove

contaminated clothing and shoes. Get medical attention if

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symptoms occur.

SureVector Lacl Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if Repressor

symptoms occur.

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SECTION 4: First aid measures

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 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.

Dpnl

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if

symptoms occur.

Ingestion : 5X SureSolution

Wash out mouth with water. 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. 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. 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. 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. 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. 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 Lacl Repressor

Wash out mouth with water. 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. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if

symptoms occur.

SureVector LacZ Control

(N-term)

Wash out mouth with water. 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

do so by medical personnel. Get medical attention if

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SECTION 4: First aid measures

symptoms occur.

SureVector Enzyme Mix Wash out mouth with water. 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. 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. If material has been swallowed

> and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if

symptoms occur.

DpnI Wash out mouth with water. 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.

Protection of first-aiders : 5X SureSolution No action shall be taken involving any personal risk or

without suitable training.

SureVector AmpR No action shall be taken involving any personal risk or

Selectable Marker without suitable training.

SureVector KanR No action shall be taken involving any personal risk or

Selectable Marker without suitable training.

No action shall be taken involving any personal risk or SureVector ChIR

without suitable training. Selectable Marker

SureVector XP1 Linker

No action shall be taken involving any personal risk or SureVector pUC Origin

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 SureVector Lacl

Repressor without suitable training.

SureVector T7-HIS6 E. No action shall be taken involving any personal risk or

coli Promoter without suitable training.

SureVector LacZ Control No action shall be taken involving any personal risk or

without suitable training. (N-term)

SureVector Enzyme Mix No action shall be taken involving any personal risk or

without suitable training.

10X SureVector Buffer No action shall be taken involving any personal risk or

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.

DpnI No action shall be taken involving any personal risk or

without suitable training.

4.2 Most important symptoms and effects, both acute and delayed Potential acute health effects

dNTP Mix

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SECTION 4: First aid measures

L۱	ΙО	COL	ıtacı	٠
_	<i>,</i> –	COL	Itaci	L

: 5X SureSolution SureVector AmpR Selectable Marker SureVector KanR Selectable Marker SureVector ChIR Selectable Marker SureVector pUC Origin SureVector XP1 Linker SureVector Lacl Repressor SureVector T7-HIS6 E. coli Promoter SureVector LacZ Control (N-term) SureVector Enzyme Mix 10X SureVector Buffer dNTP Mix DpnI

No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards. 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.

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.

Inhalation

SureVector pUC Origin
SureVector XP1 Linker
SureVector LacI
Repressor
SureVector T7-HIS6 E.
coli Promoter
SureVector LacZ Control
(N-term)
SureVector Enzyme Mix

: 5X SureSolution

SureVector AmpR

Selectable Marker SureVector KanR

Selectable Marker SureVector ChIR

Selectable Marker

SureVector Enzyme Mix 10X SureVector Buffer dNTP Mix

dNTP Mix
Dpnl

5X SureSolution
SureVector AmpR
Selectable Marker
SureVector KanR
Selectable Marker
SureVector ChIR
Selectable Marker
SureVector pUC Origin
SureVector XP1 Linker
SureVector Lacl
Repressor

SureVector T7-HIS6 E. coli Promoter

SureVector LacZ Control (N-term)

SureVector Enzyme Mix 10X SureVector Buffer dNTP Mix

Dpnl

Skin contact

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SECTION 4: First aid measures

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: 5X SureSolution SureVector AmpR Selectable Marker SureVector KanR Selectable Marker SureVector ChIR Selectable Marker SureVector pUC Origin SureVector XP1 Linker

SureVector Lacl Repressor SureVector T7-HIS6 E.

coli Promoter SureVector LacZ Control

(N-term) SureVector Enzyme Mix 10X SureVector Buffer

dNTP Mix DpnI

No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact

Inhalation

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

Selectable Marker SureVector ChIR

Selectable Marker

SureVector pUC Origin SureVector XP1 Linker SureVector Lacl Repressor

SureVector T7-HIS6 E. coli Promoter

SureVector LacZ Control

(N-term)

SureVector Enzyme Mix 10X SureVector Buffer

No specific data.

Adverse symptoms may include the following:

pain or irritation watering redness

dNTP Mix No specific data. DpnI No specific data. 5X SureSolution No specific data. No specific data.

SureVector AmpR Selectable Marker

SureVector KanR Selectable Marker

SureVector ChIR

Selectable Marker

SureVector pUC Origin SureVector XP1 Linker SureVector Lacl

Repressor SureVector T7-HIS6 E. coli Promoter

SureVector LacZ Control (N-term)

SureVector Enzyme Mix 10X SureVector Buffer

dNTP Mix DpnI

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 4: First aid measures

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S	•	n	\sim	n	-	ct

Ingestion

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

Selectable Marker

SureVector ChIR

Selectable Marker

SureVector pUC Origin SureVector XP1 Linker SureVector Lacl

Repressor

SureVector T7-HIS6 E.

coli Promoter

SureVector LacZ Control

(N-term)

SureVector Enzyme Mix 10X SureVector Buffer dNTP Mix

DpnI : 5X SureSolution

SureVector AmpR Selectable Marker

SureVector KanR Selectable Marker SureVector ChIR

Selectable Marker

SureVector pUC Origin SureVector XP1 Linker SureVector Lacl

Repressor

SureVector T7-HIS6 E. coli Promoter

SureVector LacZ Control

(N-term)

SureVector Enzyme Mix 10X SureVector Buffer dNTP Mix

Dpnl

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.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician

: 5X SureSolution

SureVector AmpR Selectable Marker SureVector KanR Selectable Marker SureVector ChIR Selectable Marker SureVector pUC Origin

SureVector XP1 Linker

SureVector LacI Repressor SureVector T7-HIS6 E. coli Promoter SureVector LacZ Control (N-term) SureVector Enzyme Mix

10X SureVector Buffer

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need

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SECTION 4: First aid measures

dNTP Mix

Dpnl

to be kept under medical surveillance for 48 hours. Treat symptomatically. Contact poison treatment specialist

immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist

immediately if large quantities have been ingested or inhaled.

Specific treatments

5X SureSolution

SureVector AmpR Selectable Marker

SureVector KanR

Selectable Marker SureVector ChIR

Selectable Marker

SureVector pUC Origin SureVector XP1 Linker SureVector Lacl

Repressor

SureVector T7-HIS6 E.

coli Promoter

SureVector LacZ Control

(N-term)

SureVector Enzyme Mix 10X SureVector Buffer

dNTP Mix DpnI

No specific treatment.

No specific treatment. No specific treatment.

No specific treatment.

No specific treatment.

No specific treatment. No specific treatment. No specific treatment. No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

: 5X SureSolution SureVector AmpR

Selectable Marker SureVector KanR

Selectable Marker SureVector ChIR

Selectable Marker SureVector pUC Origin SureVector XP1 Linker

SureVector Lacl Repressor

SureVector T7-HIS6 E. coli Promoter

(N-term)

SureVector Enzyme Mix 10X SureVector Buffer

dNTP Mix DpnI

Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.

Use an extinguishing agent suitable for the surrounding fire.

Use an extinguishing agent suitable for the surrounding fire.

Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.

Use an extinguishing agent suitable for the surrounding fire.

SureVector LacZ Control Use an extinguishing agent suitable for the surrounding fire.

Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media

5X SureSolution SureVector AmpR

Selectable Marker

SureVector KanR

Selectable Marker SureVector ChIR

Selectable Marker SureVector pUC Origin SureVector XP1 Linker

Repressor

SureVector T7-HIS6 E.

coli Promoter

SureVector Lacl

SureVector LacZ Control

None known. None known.

None known.

None known.

None known. None known. None known.

None known.

None known.

(N-term)

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SECTION 5: Firefighting measures

SureVector Enzyme Mix None known. 10X SureVector Buffer None known. dNTP Mix None known. None known. Dpnl

5.2 Special hazards arising from the substance or mixture

Hazards f	rom	the
substanc	e or i	mixture

: 5X SureSolution In a fire or if heated, a pressure increase will occur and the container may burst.

In a fire or if heated, a pressure increase will occur and the SureVector AmpR

Selectable Marker container may burst.

SureVector KanR In a fire or if heated, a pressure increase will occur and the

Selectable Marker container may burst.

SureVector ChIR In a fire or if heated, a pressure increase will occur and the

Selectable Marker container may burst.

SureVector pUC Origin In a fire or if heated, a pressure increase will occur and the

container may burst.

SureVector XP1 Linker In a fire or if heated, a pressure increase will occur and the

container may burst.

SureVector Lacl In a fire or if heated, a pressure increase will occur and the

Repressor container may burst.

In a fire or if heated, a pressure increase will occur and the

SureVector T7-HIS6 E. container may burst.

coli Promoter SureVector LacZ Control In a fire or if heated, a pressure increase will occur and the

container may burst. (N-term)

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.

In a fire or if heated, a pressure increase will occur and the Dpnl

container may burst.

Hazardous combustion products

: 5X SureSolution

Decomposition products may include the following materials:

carbon dioxide carbon monoxide sulfur oxides No specific data.

SureVector AmpR

Selectable Marker

SureVector KanR No specific data.

Selectable Marker

SureVector ChIR No specific data.

Selectable Marker

SureVector pUC Origin No specific data. SureVector XP1 Linker No specific data. SureVector Lacl No specific data.

Repressor

SureVector T7-HIS6 E. No specific data.

coli Promoter

SureVector LacZ Control No specific data.

(N-term)

SureVector Enzyme Mix Decomposition products may include the following materials:

> carbon dioxide carbon monoxide

10X SureVector Buffer Decomposition products may include the following materials:

> carbon dioxide carbon monoxide nitrogen oxides sulfur oxides

halogenated compounds metal oxide/oxides

dNTP Mix No specific data.

Donl Decomposition products may include the following materials:

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SECTION 5: Firefighting measures

carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides

5.3 Advice for firefighters Special precautions for fire-fighters

: 5X SureSolution

SureVector AmpR Selectable Marker

SureVector KanR Selectable Marker

SureVector ChIR Selectable Marker

SureVector pUC Origin

SureVector XP1 Linker

SureVector Lacl Repressor

SureVector T7-HIS6 E. coli Promoter

SureVector LacZ Control (N-term)

SureVector Enzyme Mix

10X SureVector Buffer

dNTP Mix

DpnI

Special protective equipment for fire-fighters

: 5X SureSolution

SureVector AmpR Selectable Marker

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. 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. 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. 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. 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. 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. 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. 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. 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. 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. 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. 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. 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.

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.

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.

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

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SECTION 5: Firefighting measures

SureVector ChIR Selectable Marker

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 pUC Origin

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a

basic level of protection for chemical incidents.

SureVector XP1 Linker

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a

basic level of protection for chemical incidents.

SureVector Lacl 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 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.

DpnI 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.

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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 spilt material. Put on

appropriate personal protective equipment.

SureVector AmpR Selectable Marker No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas.

Keep unnecessary and unprotected personnel from entering.

Do not touch or walk through spilt material. Put on

appropriate personal protective equipment.

SureVector 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 spilt 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 spilt material. Put on appropriate personal protective equipment.

SureVector pUC Origin

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

Keep unnecessary and unprotected personnel from entering.

Do not touch or walk through spilt material. Put on appropriate personal protective equipment.

SureVector XP1 Linker

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering.

Do not touch or walk through spilt material. Put on

appropriate personal protective equipment.

SureVector Lacl

Repressor

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

Keep unnecessary and unprotected personnel from entering.

Do not touch or walk through spilt material. Put on

appropriate personal protective equipment.

SureVector T7-HIS6 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 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

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SECTION 6: Accidental release measures

appropriate personal protective equipment.

Dpnl 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.

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 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 Lacl 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 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".

Dpnl 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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SECTION 6: Accidental release measures

6.2	Envi	iror	ımer	ıtal
pre	caut	ion	S	

: 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 Avoid dispersal of spilt material and runoff and contact with Selectable Marker soil, waterways, drains and sewers. Inform the relevant

authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

SureVector KanR 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 Avoid dispersal of spilt material and runoff and contact with selectable Marker soil, waterways, drains and sewers. Inform the relevant

authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

SureVector pUC Origin
Avoid dispersal of spilt material and runoff and contact with

soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

SureVector XP1 Linker Avoid dispersal of spilt material and runoff and contact with

soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

SureVector Lacl 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 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).

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 Stop leak if without risk. Move containers from spill area.

Selectable Marker Dilute with water and mop up if water-soluble. Alternatively,

or if water-insoluble, absorb with an inert dry material and

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SECTION 6: Accidental release measures

place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

SureVector KanR Stop leak if without risk. Move containers from spill area. Selectable Marker 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 Stop leak if without risk. Move containers from spill area. Selectable Marker 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.

Stop leak if without risk. Move containers from spill area. SureVector pUC Origin

Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose

of via a licensed waste disposal contractor.

SureVector XP1 Linker Stop leak if without risk. Move containers from spill area.

Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose

of via a licensed waste disposal contractor.

SureVector LacI Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, Repressor

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.

Stop leak if without risk. Move containers from spill area. coli Promoter 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. May be harmful to the environment if released. Dispose of spillages

under controlled conditions.

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. May be harmful to the environment if released. Dispose of spillages

under controlled conditions.

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.

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SECTION 6: Accidental release measures

(N-term)

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 Put on appropriate personal protective equipment (see

Selectable Marker Section 8).

SureVector KanR Put on appropriate personal protective equipment (see

Selectable Marker Section 8).

SureVector ChIR Put on appropriate personal protective equipment (see

Selectable Marker Section 8).

SureVector pUC Origin Put on appropriate personal protective equipment (see

Section 8).

SureVector XP1 Linker Put on appropriate personal protective equipment (see

Section 8).

SureVector Lacl Put on appropriate personal protective equipment (see

Section 8).

Repressor SureVector T7-HIS6 E. Put on appropriate personal protective equipment (see

Section 8).

coli Promoter SureVector LacZ Control 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).

Advice on general occupational hygiene : 5X SureSolution Eating, drinking and smoking should be prohibited in areas

where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and

protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. 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 SureVector KanR Selectable Marker 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

SureVector ChIR Selectable Marker 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

SureVector pUC Origin

SureVector AmpR

Selectable Marker

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SECTION 7: Handling and storage

SureVector XP1 Linker

SureVector Lacl Repressor

SureVector T7-HIS6 E. coli Promoter

SureVector LacZ Control (N-term)

SureVector Enzyme Mix

10X SureVector Buffer

dNTP Mix

DpnI

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. 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. 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.

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. 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

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

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

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SECTION 7: Handling and storage

SureVector AmpR Selectable Marker appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

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. See Section 10 for incompatible materials before handling or use.

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. See Section 10 for incompatible materials before handling or use.

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. See Section 10 for incompatible materials before handling or use.

SureVector pUC Origin

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

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. See Section 10 for incompatible materials

before handling or use.

SureVector Lacl 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. See Section 10 for incompatible materials before handling or use.

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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. See Section 10 for incompatible materials before handling or use.

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. See Section 10 for incompatible materials before handling or use.

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. See Section 10 for incompatible materials before handling or use.

10X SureVector Buffer

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

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. See Section 10 for incompatible materials before handling or use.

Dpnl

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. See Section 10 for incompatible materials

before handling or use.

7.3 Specific end use(s)

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SECTION 7: Handling and storage

	g and storage	
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 XP1 Linker	Industrial applications, Professional applications.
	SureVector Lacl	Industrial applications, Professional applications.
	Repressor	
	SureVector T7-HIS6 E. coli 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.
	Dpnl	Industrial applications, Professional applications.
Industrial sector specific	5X SureSolution	Not available.
solutions	SureVector AmpR	Not available.
	Selectable Marker	
	SureVector KanR	Not available.
	Selectable Marker	
	SureVector ChIR	Not available.
	Selectable Marker	
	SureVector pUC Origin	Not available.
	SureVector XP1 Linker	Not available.
	SureVector Lacl	Not available.
	Repressor	
	SureVector T7-HIS6 E. coli Promoter	Not available.
	SureVector LacZ Control	Not available.
	(N-term) SureVector Enzyme Mix	Not available.
	10X SureVector Buffer	Not available.
	dNTP Mix	Not available.
	Dpnl	Not available.
	- DOI 11	riot avaliable.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
SureVector Enzyme Mix	
Glycerol	NAOSH (Ireland, 1/2020).
	OELV-8hr: 10 mg/m³ 8 hours. Form: mist
Dpnl	
Glycerol	NAOSH (Ireland, 1/2020).
	OELV-8hr: 10 mg/m³ 8 hours. Form: mist

Recommended monitoring procedures

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

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SECTION 8: Exposure controls/personal protection

measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
5X SureSolution					
Dimethyl sulfoxide	DNEL	Long term Inhalation	47 mg/m³	General population	Local
	DNEL	Long term Oral	60 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	100 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	120 mg/m³	General population	Systemic
	DNEL	Long term Dermal	200 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	265 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	484 mg/m³	Workers	Systemic
10X SureVector Buffer					
Ammonium sulphate	DNEL	Long term Inhalation	1.667 mg/ m³	General population	Systemic
	DNEL	Long term Oral	6.4 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	11.167 mg/ m³	Workers	Systemic
	DNEL	Long term Dermal	12.8 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	42.667 mg/ kg bw/day	Workers	Systemic
Dpnl					
Sodium chloride	DNEL	Short term Oral	126.65 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Oral	126.65 mg/ kg bw/day	General population	Systemic
	DNEL	Short term Dermal	126.65 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	126.65 mg/ kg bw/day	General population	Systemic
	DNEL	Short term Dermal	295.52 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	295.52 mg/ kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	443.28 mg/ m ³	General population	Systemic
	DNEL	Long term Inhalation	443.28 mg/ m ³	General population	Systemic
	DNEL	Short term Inhalation	2068.62 mg/m³	Workers	Systemic
	DNEL	Long term Inhalation	2068.62 mg/m ³	Workers	Systemic

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

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SECTION 8: Exposure controls/personal protection

Individual protection measures

Hygiene measures

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

Eye/face protection

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

Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

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

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance

Physical state : 5X SureSolution Liquid. [Clear.] Liquid.

SureVector AmpR

Selectable Marker

SureVector KanR Liquid. Selectable Marker SureVector ChIR Liquid.

Selectable Marker

SureVector pUC Origin Liquid. SureVector XP1 Linker Liquid. SureVector Lacl Liquid.

Repressor

SureVector T7-HIS6 E. Liquid.

coli Promoter

SureVector LacZ Control Liquid.

(N-term)

SureVector Enzyme Mix Liquid. 10X SureVector Buffer Liquid. dNTP Mix Liquid. DpnI Liquid.

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SECTION 9: Physical and chemical properties

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 XP1 Linker Not available. SureVector Lacl 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 XP1 Linker Not available. SureVector Lacl Not available.	
Selectable Marker SureVector KanR Not available. Selectable Marker SureVector ChIR Not available. Selectable Marker SureVector puc Origin Not available. SureVector XP1 Linker Not available. SureVector Lacl Not available.	
SureVector KanR Not available. Selectable Marker SureVector ChIR Not available. Selectable Marker SureVector pUC Origin Not available. SureVector XP1 Linker Not available. SureVector Lacl Not available.	
Selectable Marker SureVector ChIR Not available. Selectable Marker SureVector pUC Origin Not available. SureVector XP1 Linker Not available. SureVector Lacl Not available.	
SureVector ChIR Not available. Selectable Marker SureVector pUC Origin Not available. SureVector XP1 Linker Not available. SureVector Lacl Not available.	
Selectable Marker SureVector pUC Origin Not available. SureVector XP1 Linker Not available. SureVector Lacl Not available.	
SureVector pUC Origin Not available. SureVector XP1 Linker Not available. SureVector Lacl Not available.	
SureVector XP1 Linker Not available. SureVector Lacl Not available.	
SureVector Lacl Not available.	
Donroccor	•
Repressor SureVector T7-HIS6 E. Not available.	
coli Promoter	•
SureVector LacZ Control Not available.	
	•
(N-term)	
SureVector Enzyme Mix Not available. 10X SureVector Buffer Not available.	
dNTP Mix Not available.	
Dpnl Not available.	•
Odour : 5X SureSolution Odourless. [S	light]
SureVector AmpR Not available.	i
Selectable Marker	
SureVector KanR Not available.	i
Selectable Marker	
SureVector ChIR Not available.	
Selectable Marker	
SureVector pUC Origin Not available.	i
SureVector XP1 Linker Not available.	
SureVector Lacl Not available.	
Repressor	
SureVector T7-HIS6 E. Not available.	
coli Promoter	
SureVector LacZ Control Not available.	
(N-term)	
SureVector Enzyme Mix Not available.	
10X SureVector Buffer Not available.	
dNTP Mix Not available.	
Dpnl 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 XP1 Linker Not available.	
SureVector Lacl Not available.	
Repressor	
SureVector T7-HIS6 E. Not available.	
coli Promoter	
SureVector LacZ Control Not available.	
(N-term)	
SureVector Enzyme Mix Not available.	
10X SureVector Buffer Not available.	
dNTP Mix Not available.	
Dpnl Not available.	
,	

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SECTION 9: Physical and chemical properties

SECTION 9: Physica		
	5X SureSolution	18.5°C
point	SureVector AmpR	0°C
	Selectable Marker	
	SureVector KanR	0°C
	Selectable Marker	
	SureVector ChIR	0°C
	Selectable Marker	
	SureVector pUC Origin	0°C
	SureVector XP1 Linker	0°C
	SureVector Lacl	0°C
	Repressor	0.6
	SureVector T7-HIS6 E.	0°C
	coli Promoter	0.0
	SureVector LacZ Control	0°C
		0.0
	(N-term)	Not eveilable
	SureVector Enzyme Mix	Not available.
	10X SureVector Buffer	Not available.
	dNTP Mix	0°C
	Dpnl	Not available.
Initial boiling point and	5X SureSolution	189°C (372.2°F)
boiling range	SureVector AmpR	100°C (212°F)
3 3 3	Selectable Marker	,
	SureVector KanR	100°C (212°F)
	Selectable Marker	(=.= .)
	SureVector ChIR	100°C (212°F)
	Selectable Marker	100 0 (212 1)
	SureVector pUC Origin	100°C (212°F)
	SureVector XP1 Linker	100°C (212°F)
	SureVector Lacl	100°C (212°F)
	_	100 C (212 F)
	Repressor	400°C (242°E)
	SureVector T7-HIS6 E.	100°C (212°F)
	coli Promoter	400°O (040°E)
	SureVector LacZ Control	100°C (212°F)
	(N-term)	A
	SureVector Enzyme Mix	Not available.
	10X SureVector Buffer	Not available.
	dNTP Mix	100°C (212°F)
	Dpnl	Not available.
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 XP1 Linker	Not applicable.
	SureVector Lacl	Not applicable.
	Repressor	rtot applicable.
	SureVector T7-HIS6 E.	Not applicable.
	coli Promoter	тос арриоамо.
	SureVector LacZ Control	Not applicable.
		ττοι αργιισανίο.
	(N-term)	Not applicable
	SureVector Enzyme Mix	Not applicable.
	10X SureVector Buffer	Not applicable.
	dNTP Mix	Not applicable.
	Dpnl	Not applicable.

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SECTION 9: Physical and chemical properties

Upper/lower flammability: 5X SureSolution or explosive limits

Flash point

Lower: 2.6% Upper: 28.5% SureVector AmpR Not available.

Selectable Marker

SureVector KanR Selectable Marker

SureVector ChIR Not available.

Selectable Marker

SureVector pUC Origin Not available. SureVector XP1 Linker Not available. SureVector Lacl Not available.

Repressor

SureVector T7-HIS6 E.

coli Promoter

SureVector LacZ Control

(N-term)

SureVector Enzyme Mix 10X SureVector Buffer

dNTP Mix DpnI

Not available.

Not available.

Not available.

Not available. Not available. Not available. Not available.

: 5X SureSolution Closed cup: 87°C (188.6°F) [ASTM D 93]

Not available.

Open cup: 87°C (188.6°F)

SureVector AmpR

Selectable Marker

SureVector KanR

Not available.

Selectable Marker

SureVector ChIR Not available.

Selectable Marker

SureVector pUC Origin Not available. SureVector XP1 Linker Not available. SureVector Lacl Not available.

Repressor

SureVector T7-HIS6 E. Not available.

coli Promoter

SureVector LacZ Control Not available.

(N-term)

SureVector Enzyme Mix Not available. 10X SureVector Buffer Not available. dNTP Mix Not available. Not available. DpnI

	Closed cup			Open cup		
Ingredient name	°C	°F	Method	°C	°F	Method
SureVector AmpR Selectable Marker						
Edetic acid	>100	>212	DIN 51758			
SureVector KanR Selectable Marker						
Edetic acid	>100	>212	DIN 51758			
SureVector ChIR Selectable Marker						
Edetic acid	>100	>212	DIN 51758			
SureVector pUC Origin						
Edetic acid	>100	>212	DIN 51758			
SureVector XP1 Linker						
I	I	l	Į	I	1	I

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SECTION 9: Physical and chemical properties

anu chemicai p	operi	162			
Edetic acid	>100	>212	DIN 51758		
SureVector Lacl Repressor					
	400	. 040	B.N. 54750		
Edetic acid	>100	>212	DIN 51758		
SureVector T7-HIS6 E. coli Promoter					
Edetic acid	>100	>212	DIN 51758		
SureVector LacZ Control (N-term)					
Edetic acid	>100	>212	DIN 51758		
SureVector Enzyme Mix					
Edetic acid	>100	>212	DIN 51758		
Poly(oxy-1,2-ethanediyl), . alpha[(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-	>109.85	>229.7			
10X SureVector Buffer					
Polyoxyethylene octyl phenyl ether	>109.85	>229.7			
dNTP Mix					
Edetic acid	>100	>212	DIN 51758		
DpnI					
Edetic acid	>100	>212	DIN 51758		
(R*,R*) -1,4-Dimercaptobutane- 2,3-diol	>110	>230			
5X SureSolution	300	to 302°C	(572 to 575 6°	F)	

Auto-ignition temperature

: 5X SureSolution 300 to 302°C (572 to 575.6°F)

SureVector AmpR Not available.

Selectable Marker

SureVector KanR Not available.

Selectable Marker

SureVector ChIR Not available.

Selectable Marker

SureVector pUC Origin
SureVector XP1 Linker
SureVector Lacl
Not available.
Not available.

Repressor

SureVector T7-HIS6 E. Not available.

coli Promoter

SureVector LacZ Control Not available.

(N-term)

SureVector Enzyme Mix
10X SureVector Buffer
dNTP Mix
Dpnl

Not available.
Not available.
Not available.
Not available.

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SECTION 9: Physical and chemical properties

Ingredient name	°C	°F	Method
SureVector AmpR Selectable Marker			
Edetic acid	>400	>752	VDI 2263
SureVector KanR Selectable Marker			
	400	750	VDI 0000
Edetic acid	>400	>752	VDI 2263
SureVector ChIR Selectable Marker			
Edetic acid	>400	>752	VDI 2263
SureVector pUC Origin			
Edetic acid	>400	>752	VDI 2263
SureVector XP1 Linker			
Edetic acid	>400	>752	VDI 2263
SureVector Lacl Repressor			
Edetic acid	>400	>752	VDI 2263
SureVector T7-HIS6 E. coli Promoter			
Edetic acid	>400	>752	VDI 2263
SureVector LacZ Control (N-term)			
Edetic acid	>400	>752	VDI 2263
SureVector Enzyme Mix			
Glycerol	370	698	
Edetic acid	>400	>752	VDI 2263
		. 52	
dNTP Mix			
Edetic acid	>400	>752	VDI 2263
Donl			
Dpnl	070	000	
Glycerol	370	698	
Edetic acid 5X SureSolution 140 to	>400 o 189°C	>752	VDI 2263

Decomposition temperature

SureVector AmpR Not available. Selectable Marker SureVector KanR Not available. Selectable Marker Not available. SureVector ChIR Selectable Marker Not available. SureVector pUC Origin SureVector XP1 Linker Not available. SureVector LacI Not available. Repressor SureVector T7-HIS6 E. Not available. coli Promoter SureVector LacZ Control Not available. (N-term) SureVector Enzyme Mix Not available. 10X SureVector Buffer Not available.

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SECTION 9: Physical and chemical properties

SECTION 9: Physical	and chemical proj	perties
	dNTP Mix Dpnl	Not available. Not available.
pH :	5X SureSolution	Not available.
	SureVector AmpR Selectable Marker	8
	SureVector KanR Selectable Marker	8
	SureVector ChIR Selectable Marker	8
	SureVector pUC Origin	8
	SureVector XP1 Linker	8
	SureVector Lacl Repressor	8
	SureVector T7-HIS6 E. coli Promoter	8
	SureVector LacZ Control (N-term)	8
	SureVector Enzyme Mix	8.2
	10X SureVector Buffer	8.8
	dNTP Mix	7.5
	Dpnl	7.5
Viscosity :	5X SureSolution SureVector AmpR Selectable Marker	Dynamic: 2.14 mPa·s Not available.
	Selectable Marker SureVector KanR Selectable Marker	Not available.
	SureVector ChIR Selectable Marker	Not available.
	SureVector pUC Origin	Not available.
	SureVector XP1 Linker	Not available.
	SureVector Lacl Repressor	Not available.
	SureVector T7-HIS6 E. coli Promoter	Not available.
	SureVector LacZ Control (N-term)	Not available.
	SureVector Enzyme Mix	Not available.
	10X SureVector Buffer	Not available.
Only little (C.)	dNTP Mix DpnI	Not available. 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	Easily soluble in the following materials: cold water and hot
	Selectable Marker SureVector pUC Origin	water. Easily soluble in the following materials: cold water and hot
	SureVector XP1 Linker	water. Easily soluble in the following materials: cold water and hot
	SureVector Lacl	water. Easily soluble in the following materials: cold water and hot
	Repressor SureVector T7-HIS6 E.	water. Fasily soluble in the following materials: cold water and hot
	coli 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 10X SureVector Buffer	Soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water.

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Easily soluble in the following materials: cold water and hot

dNTP Mix

SECTION 9: Physical and chemical properties

DpnI Easily soluble in the following materials: cold water and hot

water.

Partition coefficient: noctanol/water

Vapour pressure

5X SureSolution -1.35

SureVector AmpR Not applicable.

Selectable Marker

SureVector KanR Not applicable.

Selectable Marker

SureVector ChIR Not applicable.

Selectable Marker

SureVector pUC Origin Not applicable. SureVector XP1 Linker Not applicable. Not applicable. SureVector Lacl

Repressor

SureVector T7-HIS6 E. Not applicable.

coli Promoter

SureVector LacZ Control

(N-term)

Not applicable.

SureVector Enzyme Mix

Not applicable. 10X SureVector Buffer Not applicable. Not applicable.

dNTP Mix Not applicable. Dpnl

0.056 kPa (0.42 mm Hg) [EU A.4] 5X SureSolution Not available.

SureVector AmpR

Selectable Marker

Not available. SureVector KanR

Selectable Marker

SureVector ChIR Not available.

Selectable Marker

SureVector pUC Origin Not available. SureVector XP1 Linker Not available. Not available. SureVector Lacl

Repressor

SureVector T7-HIS6 E. Not available.

coli Promoter

SureVector LacZ Control Not available.

(N-term)

SureVector Enzyme Mix Not available. Not available. 10X SureVector Buffer dNTP Mix Not available. DpnI Not available.

	Vapour Pressure at 20°C			Vapour pressure at 50°C			
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
SureVector AmpR Selectable Marker							
water	23.8	3.2		92.258	12.3		
2-Amino-2- (hydroxymethyl)propane- 1,3-diol hydrochloride	0.000027	0.0000036		0.000007501	0.000001		
SureVector KanR Selectable Marker							
water	23.8	3.2		92.258	12.3		
2-Amino-2- (hydroxymethyl)propane- 1,3-diol hydrochloride	0.000027	0.0000036		0.000007501	0.000001		
SureVector ChIR Selectable Marker							

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SECTION 9: Physical and chemical properties

and chemical p	noperi	162		
water	23.8	3.2	92.258	12.3
2-Amino-2- (hydroxymethyl)propane- 1,3-diol hydrochloride	0.000027	0.0000036	0.000007501	0.000001
SureVector pUC Origin				
water	23.8	3.2	92.258	12.3
2-Amino-2- (hydroxymethyl)propane- 1,3-diol hydrochloride	0.000027	0.0000036	0.000007501	0.000001
SureVector XP1 Linker				
water	23.8	3.2	92.258	12.3
2-Amino-2- (hydroxymethyl)propane- 1,3-diol hydrochloride	0.000027	0.0000036	0.000007501	0.000001
SureVector Lacl Repressor				
water	23.8	3.2	92.258	12.3
2-Amino-2- (hydroxymethyl)propane- 1,3-diol hydrochloride	0.000027	0.0000036	0.000007501	0.000001
SureVector T7-HIS6 E. coli Promoter				
water	23.8	3.2	92.258	12.3
2-Amino-2- (hydroxymethyl)propane- 1,3-diol hydrochloride	0.000027	0.0000036	0.000007501	0.000001
SureVector LacZ Control (N-term)				
water	23.8	3.2	92.258	12.3
2-Amino-2- (hydroxymethyl)propane- 1,3-diol hydrochloride	0.000027	0.0000036	0.000007501	0.000001
SureVector Enzyme Mix				
water	23.8	3.2	92.258	12.3
Sorbitan monolaurate, ethoxylated	<1	<0.13		
10X SureVector Buffer				
water	23.8	3.2	92.258	12.3
Polyoxyethylene octyl phenyl ether	<1	<0.13		
dNTP Mix				
water	23.8	3.2	92.258	12.3
2-Amino-2- (hydroxymethyl)propane- 1,3-diol hydrochloride	0.000027	0.0000036	0.000007501	0.000001
DpnI				

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SECTION 9: Physical and chemical properties

water	23.8	3.2	92.258	12.3	
Glycerol	0.000075	0.00001	0.0025	0.00033	

Not available.

Evaporation rate

5X SureSolution 0.026 (butyl acetate = 1)

SureVector AmpR Not available.

Selectable Marker

SureVector KanR Not available.

Selectable Marker

SureVector ChIR Not available.

Selectable Marker

SureVector pUC Origin Not available. SureVector XP1 Linker Not available. SureVector Lacl Not available.

Repressor

SureVector T7-HIS6 E. Not available.

coli Promoter

Not available. SureVector LacZ Control

(N-term)

SureVector Enzyme Mix Not available. 10X SureVector Buffer Not available. dNTP Mix Not available. DpnI Not available.

5X SureSolution 1.1 SureVector AmpR Not available.

Selectable Marker

SureVector KanR Selectable Marker

SureVector ChIR Not available.

Selectable Marker

SureVector pUC Origin Not available. SureVector XP1 Linker Not available. SureVector Lacl Not available.

Repressor

SureVector T7-HIS6 E. Not available.

coli Promoter

Not available. SureVector LacZ Control

(N-term)

SureVector Enzyme Mix Not available. 10X SureVector Buffer Not available. dNTP Mix Not available. Not available. DpnI

Vapour density

Relative density

2.7 [Air = 1]5X SureSolution Not available. SureVector AmpR

Selectable Marker

SureVector KanR Not available.

Selectable Marker

Not available. SureVector ChIR

Selectable Marker

SureVector pUC Origin Not available. SureVector XP1 Linker Not available. SureVector Lacl Not available.

Repressor

SureVector T7-HIS6 E. Not available.

coli Promoter

SureVector LacZ Control Not available.

(N-term)

SureVector Enzyme Mix Not available. 10X SureVector Buffer Not available.

dNTP Mix Not available. DpnI Not available.

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SECTION 9: Physical and chemical properties

Oxidising properties

: 5X SureSolution Not available. SureVector AmpR Not available. Selectable Marker

SureVector KanR

Selectable Marker SureVector ChIR

Not available.

Not available.

Selectable Marker

SureVector pUC Origin Not available. SureVector XP1 Linker Not available. SureVector Lacl Not available.

Repressor

SureVector T7-HIS6 E.

coli Promoter

SureVector LacZ Control

(N-term)

SureVector Enzyme Mix 10X SureVector Buffer

dNTP Mix DpnI

Not available.

Not available.

Not available. Not available. Not available. Not available.

Particle characteristics

Median particle size

: 5X SureSolution SureVector AmpR

Selectable Marker

SureVector KanR

Selectable Marker SureVector ChIR

Selectable Marker SureVector pUC Origin SureVector XP1 Linker

SureVector Lacl

Repressor

SureVector T7-HIS6 E.

coli Promoter

SureVector LacZ Control Not applicable.

(N-term)

SureVector Enzyme Mix 10X SureVector Buffer

dNTP Mix DpnI

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable. Not applicable.

Not applicable.

Not applicable.

Not applicable. Not applicable. Not applicable. Not applicable.

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 Selectable Marker 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 SureVector ChIR

Selectable Marker product or its ingredients.

SureVector pUC Origin No specific test data related to reactivity available for this

product or its ingredients. SureVector XP1 Linker No specific test data related to reactivity available for this

product or its ingredients.

SureVector Lacl No specific test data related to reactivity available for this product or its ingredients. Repressor

SureVector T7-HIS6 E. No specific test data related to reactivity available for this

product or its ingredients. coli Promoter SureVector LacZ Control No specific test data related to reactivity available for this

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SECTION 10: Stability and reactivity

(N-term) 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.

No specific test data related to reactivity available for this DpnI

product or its ingredients.

10.2 Chemical stability

: 5X SureSolution The product is stable. SureVector AmpR The product is stable. Selectable Marker

SureVector KanR Selectable Marker SureVector ChIR

The product is stable. The product is stable.

Selectable Marker SureVector pUC Origin

The product is stable. The product is stable. The product is stable.

SureVector XP1 Linker SureVector Lacl Repressor

The product is stable.

SureVector T7-HIS6 E.

SureVector LacZ Control

The product is stable. The product is stable.

(N-term)

coli Promoter

SureVector Enzyme Mix 10X SureVector Buffer

The product is stable. The product is stable. The product is stable.

dNTP Mix DpnI

10.3 Possibility of hazardous reactions

: 5X SureSolution Under normal conditions of storage and use, hazardous

reactions will not occur.

SureVector AmpR Under normal conditions of storage and use, hazardous Selectable Marker reactions will not occur. SureVector KanR Under normal conditions of storage and use, hazardous

Selectable Marker reactions will not occur.

SureVector ChIR Under normal conditions of storage and use, hazardous Selectable Marker reactions will not occur.

SureVector pUC 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 Lacl Under normal conditions of storage and use, hazardous

Repressor reactions will not occur. Under normal conditions of storage and use, hazardous

SureVector T7-HIS6 E. coli Promoter

reactions will not occur. SureVector LacZ Control Under normal conditions of storage and use, hazardous

(N-term) 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.

Under normal conditions of storage and use, hazardous DpnI reactions will not occur.

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SECTION 10: Stability and reactivity

10.4 Conditions to avoid

: 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 XP1 Linker No specific data. No specific data. SureVector Lacl Repressor SureVector T7-HIS6 E. No specific data. coli Promoter SureVector LacZ Control No specific data. (N-term) SureVector Enzyme Mix No specific data. 10X SureVector Buffer No specific data. dNTP Mix No specific data. No specific data. DpnI

10.5 Incompatible materials

: 5X SureSolution SureVector AmpR Selectable Marker SureVector KanR Selectable Marker SureVector ChIR Selectable Marker SureVector pUC Origin SureVector XP1 Linker SureVector Lacl Repressor SureVector T7-HIS6 E. coli Promoter (N-term) SureVector Enzyme Mix 10X SureVector Buffer dNTP Mix DpnI

May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.

May react or be incompatible with oxidising materials.

May react or be incompatible with oxidising materials.

May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.

May react or be incompatible with oxidising materials.

SureVector LacZ Control May react or be incompatible with oxidising materials.

May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.

10.6 Hazardous decomposition products

: 5X SureSolution

SureVector AmpR Selectable Marker SureVector KanR Selectable Marker SureVector ChIR Selectable Marker SureVector pUC Origin

SureVector XP1 Linker

SureVector LacI Repressor SureVector T7-HIS6 E. coli Promoter SureVector LacZ Control (N-term) SureVector Enzyme Mix 10X SureVector Buffer

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830 - Ireland

SureVector E. coli Selection Kit, Part Number G7518A

SECTION 10: Stability and reactivity

dNTP Mix

DpnI

Under normal conditions of storage and use, hazardous decomposition products should not be produced.
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	Rat	40000 mg/kg	-
	LD50 Oral	Rat	14500 mg/kg	-
SureVector Enzyme Mix				
Poly(oxy-1,2-ethanediyl), .	LD50 Oral	Rat	2800 mg/kg	-
alpha[
(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-				
phenyijomeganydroxy-				
10X SureVector Buffer				
Ammonium sulphate	LD50 Oral	Rat	2840 mg/kg	-
Polyoxyethylene octyl phenyl	LD50 Oral	Rat	1800 mg/kg	-
ether				
Dpnl				
Sodium chloride	LD50 Oral	Rat	3000 mg/kg	-

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
5X SureSolution					
Dimethyl sulfoxide	14500	40000	N/A	N/A	N/A
SureVector Enzyme Mix					
Poly(oxy-1,2-ethanediyl), .alpha[(1,1,3,3-tetramethylbutyl)phenyl]omegahydroxy-	2800	N/A	N/A	N/A	N/A
10X SureVector Buffer					
10X SureVector Buffer	180000	N/A	N/A	N/A	N/A
Ammonium sulphate	2840	N/A	N/A	N/A	N/A
Polyoxyethylene octyl phenyl ether	1800	N/A	N/A	N/A	N/A
DpnI					
Sodium chloride	3000	N/A	N/A	N/A	N/A

Irritation/Corrosion

re O	bservation
500 -	
-	
500 -	
-	
-	
9	

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SECTION 11: Toxicological information

alpha[(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-					
10X SureVector Buffer Polyoxyethylene octyl phenyl ether	Skin - Mild irritant	Rabbit	-	24 hours 500 uL	-
Dpnl					
Sodium chloride	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				mg	
	Eyes - Moderate irritant	Rabbit	-	10 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	

Sensitiser

Conclusion/Summary : Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available. Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure

: 5X SureSolution

SureVector AmpR

Selectable Marker

SureVector KanR

Selectable Marker

SureVector ChIR

Selectable Marker

SureVector pUC Origin SureVector XP1 Linker

SureVector Lacl Repressor

SureVector T7-HIS6 E. coli Promoter

SureVector LacZ Control

(N-term)

SureVector Enzyme Mix 10X SureVector Buffer

dNTP Mix

DpnI

Routes of entry anticipated: Oral, Dermal, Inhalation.

Not available.

Not available.

Not available.

Not available. Not available.

Not available.

Not available.

Not available.

Routes of entry anticipated: Oral, Dermal, Inhalation. Routes of entry anticipated: Oral, Dermal, Inhalation.

Not available.

Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

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SECTION 11: Toxicological information

1		- 43	
ın	na	ıatı	on

: 5X SureSolution SureVector AmpR Selectable Marker SureVector KanR Selectable Marker SureVector ChIR Selectable Marker SureVector pUC Origin SureVector XP1 Linker SureVector Lacl Repressor SureVector T7-HIS6 E. coli Promoter SureVector LacZ Control (N-term) SureVector Enzyme Mix 10X SureVector Buffer dNTP Mix DpnI

No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

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.

Ingestion

: 5X SureSolution SureVector AmpR Selectable Marker SureVector KanR Selectable Marker SureVector ChIR Selectable Marker SureVector pUC Origin SureVector XP1 Linker SureVector Lacl Repressor SureVector T7-HIS6 E. coli Promoter SureVector LacZ Control (N-term) SureVector Enzyme Mix 10X SureVector Buffer dNTP Mix DpnI

Skin contact

5X SureSolution No known significant effects or critical hazards. SureVector AmpR 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 SureVector XP1 Linker SureVector Lacl Repressor SureVector T7-HIS6 E. No known significant effects or critical hazards. coli 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 dNTP Mix DpnI

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SECTION 11: Toxicological information

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╌	<i>,</i> –	LU	nta	Lι

: 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 XP1 Linker No known significant effects or critical hazards. SureVector Lacl No known significant effects or critical hazards. Repressor SureVector T7-HIS6 E. No known significant effects or critical hazards. coli 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 Causes serious eye irritation.

No known significant effects or critical hazards.

No known significant effects or critical hazards. DpnI

No specific data. No specific data. SureVector AmpR Selectable Marker SureVector KanR No specific data. Selectable Marker

SureVector ChIR No specific data. Selectable Marker

SureVector XP1 Linker SureVector Lacl Repressor SureVector T7-HIS6 E. No specific data.

(N-term) SureVector Enzyme Mix No specific data. 10X SureVector Buffer No specific data. No specific data. dNTP Mix

Ingestion 5X SureSolution No specific data. No specific data. SureVector AmpR Selectable Marker

SureVector T7-HIS6 E.

No specific data. Selectable Marker

SureVector pUC Origin No specific data. SureVector XP1 Linker No specific data.

SureVector Lacl No specific data. Repressor

coli Promoter

No specific data.

(N-term)

SureVector Enzyme Mix No specific data. No specific data. 10X SureVector Buffer dNTP Mix No specific data. DpnI No specific data.

Symptoms related to the physical, chemical and toxicological characteristics

dNTP Mix

Inhalation : 5X SureSolution

SureVector pUC Origin No specific data. No specific data. No specific data.

coli Promoter SureVector LacZ Control No specific data.

DpnI No specific data.

SureVector KanR

SureVector ChIR No specific data. Selectable Marker

SureVector LacZ Control No specific data.

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SECTION 11: Toxicological information

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
SureVector XP1 Linker
No specific data.
No specific data.

SureVector Lacl No specific data. Repressor

SureVector T7-HIS6 E. No specific data. coli Promoter

SureVector LacZ Control No specific data.

(N-term)
SureVector Enzyme Mix No specific data.

10X SureVector Buffer No specific data.

dNTP Mix No specific data.

Dpnl No specific data.

5X SureSolution No specific data.

Eye contact : 5X SureSolution No specific data.
SureVector AmpR No specific data.
Selectable Marker

(N-term)

SureVector KanR No specific data.
Selectable Marker

SureVector ChIR No specific data. Selectable Marker

SureVector pUC Origin
SureVector XP1 Linker
SureVector Lacl
No specific data.
No specific data.

Repressor SureVector T7-HIS6 E. No specific data.

coli Promoter
SureVector LacZ Control 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.

Dpnl No specific data.

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

Short term exposure

Potential immediate : Not available.

effects

Potential delayed : Not available. effects

Long term exposure

Potential immediate : Not available.

effects

Potential delayed : Not available.

effects

Potential chronic health effects

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SECTION 11: Toxicological information

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: 5X SureSolution SureVector AmpR Selectable Marker SureVector KanR Selectable Marker SureVector ChIR Selectable Marker SureVector pUC Origin SureVector XP1 Linker SureVector Lacl Repressor SureVector T7-HIS6 E. coli Promoter SureVector LacZ Control (N-term) SureVector Enzyme Mix 10X SureVector Buffer

dNTP Mix

DpnI

No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards.

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No known significant effects or critical hazards.

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No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Carcinogenicity

5X SureSolution SureVector AmpR Selectable Marker SureVector KanR Selectable Marker SureVector ChIR Selectable Marker SureVector pUC Origin SureVector XP1 Linker SureVector Lacl Repressor SureVector T7-HIS6 E. coli Promoter SureVector LacZ Control (N-term) SureVector Enzyme Mix 10X SureVector Buffer dNTP Mix DpnI

Mutagenicity

5X SureSolution No known significant effects or critical hazards. SureVector AmpR 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 SureVector XP1 Linker SureVector Lacl Repressor SureVector T7-HIS6 E. No known significant effects or critical hazards. coli Promoter SureVector LacZ Control No known significant effects or critical hazards. (N-term) No known significant effects or critical hazards. SureVector Enzyme Mix 10X SureVector Buffer dNTP Mix DpnI

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SECTION 11: Toxicological information

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Reproductive toxicity	: 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 XP1 Linker	No known significant effects or critical hazards.
	SureVector Lacl	No known significant effects or critical hazards.
	Repressor	•
	SureVector T7-HIS6 E.	No known significant effects or critical hazards.
	coli 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.
	Dpnl	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 -	48 hours
		Neonate	
	Acute LC50 34000000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 100 ul/L Marine water	Algae - Ulva lactuca	72 hours
	Chronic NOEC 100 ul/L Fresh water	Daphnia - Daphnia magna -	21 days
		Juvenile (Fledgling, Hatchling, Weanling)	
		(vveariii ig)	
SureVector Enzyme Mix			
Poly(oxy-1,2-ethanediyl), .	Acute EC50 210 μg/l Fresh water	Algae - Selenastrum sp.	96 hours
alpha[
(1,1,3,3-tetramethylbutyl)			
phenyl]omegahydroxy-	Acute LC50 10800 µg/l Marine water	Crustaceans - Pandalus	48 hours
	Acute LC50 10600 µg/i Marine water	montagui - Adult	40 110015
	Acute LC50 8600 μg/l Fresh water	Daphnia - Daphnia magna -	48 hours
	, todio 2000 cooc µg/11 roon water	Neonate	10110410
	Acute LC50 7200 μg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
10X SureVector Buffer			
Ammonium sulphate	Chronic NOEC 7.5 mg/l Marine water	Algae - Phaeodactylum	96 hours
	g,,a	tricornutum - Exponential growth	001100110
		phase	
Polyoxyethylene octyl phenyl	Acute LC50 5.85 mg/l Fresh water	Crustaceans - Ceriodaphnia	48 hours
ether		rigaudi - Neonate	
	Acute LC50 11.2 mg/l Fresh water	Daphnia - Daphnia magna -	48 hours
	A	Neonate	001
	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 519.6 mg/l Fresh water	Crustaceans - Cypris	48 hours
		subglobosa	
	Acute EC50 402.6 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute IC50 6.87 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute LC50 1000000 μg/l Fresh water	Fish - Morone saxatilis - Larvae	96 hours
	Chronic LC10 781 mg/l Fresh water	Crustaceans - Hyalella azteca -	3 weeks

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SECTION 12: Ecological information

Chronic NOEC 6 g/L Fresh water Chronic NOEC 0.314 g/L Fresh water Chronic NOEC 100 mg/l Fresh water Juvenile (Fledgling, Hatchling, Weanling) Aquatic plants - Lemna minor Daphnia - Daphnia pulex Fish - Gambusia holbrooki -Adult

96 hours 21 days 8 weeks

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
5X SureSolution Dimethyl sulfoxide	OECD 301D Ready Biodegradability - Closed Bottle Test	31 % - Not readily - 28 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
5X SureSolution Dimethyl sulfoxide	-	-	Not readily
10X SureVector Buffer Ammonium sulphate Polyoxyethylene octyl phenyl ether	-	-	Readily Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	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]omegahydroxy-	3.77	78.67	low
10X SureVector Buffer Ammonium sulphate Polyoxyethylene octyl phenyl ether	-5.1 4.86	- -	low high

12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB
5X SureSolution Dimethyl sulfoxide	No	N/A	No	No	No	N/A	No

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

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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

: Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

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

: Dispose of material(s) and residues under controlled conditions. 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

	ADR/RID	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	No.	No.	No.

Additional information

14.6 Special precautions for user

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

14.7 Transport in bulk according to IMO instruments

: Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

Annex XIV - List of substances subject to authorisation
Annex XIV

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SECTION 15: Regulatory information

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	Listed	42	7/3/2017	
10X SureVector Buffer Polyoxyethylene octyl phenyl ether	Substance of equivalent concern for environment	Listed	42	7/3/2017	

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	7/3/2017
10X SureVector Buffer Polyoxyethylene octyl phenyl ether	Substance of equivalent concern for environment	Recommended	ED/169/2012	7/3/2017

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

Ingredient name	EC number	CAS number	Restriction
10X SureVector Buffer			
ammonium sulphate	231-984-1	7783-20-2	65

Label

5X SureSolution

Not applicable.

SureVector AmpR Selectable

Not applicable.

Marker

SureVector KanR Selectable

Not applicable.

Marker

SureVector ChIR Selectable

Not applicable.

Marker

SureVector pUC Origin SureVector XP1 Linker SureVector LacI Repressor SureVector T7-HIS6 E. coli Not applicable. Not applicable. Not applicable.

Promoter

SureVector LacZ Control (N-

Not applicable.

Not applicable.

term)

SureVector Enzyme Mix 10X SureVector Buffer

Not applicable. Not applicable.

dNTP Mix DpnI

Not applicable. Not applicable.

Other EU regulations

Industrial emissions (integrated pollution prevention and control) : Listed

Ozone depleting substances (1005/2009/EU)

Not listed.

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

Not listed.

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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830 - Ireland

SureVector E. coli Selection Kit, Part Number G7518A

SECTION 15: Regulatory information

Persistent Organic Pollutants

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

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : Not determined.

Canada : Not determined.

China : All components are listed or exempted.
 Europe : All components are listed or exempted.
 Japan inventory (CSCL): Not determined.
 Japan inventory (ISHL): Not determined.

New Zealand : Not determined.
Philippines : Not determined.
Republic of Korea : Not determined.

Taiwan : All components are listed or exempted.

Thailand : Not determined.

Turkey : Not determined.

United States : All components are active or exempted.

Viet Nam : Not determined.

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]

DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

vPvB = Very Persistent and Very Bioaccumulative

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

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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830 - Ireland

SureVector E. coli Selection Kit, Part Number G7518A

SECTION 16: Other information

Classification	Justification	
10X SureVector Buffer Eye Irrit. 2, H319	Calculation method	

Full text of abbreviated H statements

SureVector Enzyme Mix	
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
10X SureVector Buffer	
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.
Dpnl	
H319	Causes serious eye irritation.

Full text of classifications [CLP/GHS]

SureVector Enzyme Mix Aquatic Acute 1 Aquatic Chronic 1 Eye Irrit. 2	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
10X SureVector Buffer Acute Tox. 4 Aquatic Chronic 2 Eye Dam. 1 Eye Irrit. 2 Skin Irrit. 2	ACUTE TOXICITY - Category 4 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 2
Dpnl Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

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revision

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Version :

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