

SAFETY DATA SHEET



SureVector E. coli N-terminal Tag kit, 5 rxn, Part Number G7518D

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

1.1 Product identifier

Product name : SureVector E. coli N-terminal Tag kit, 5 rxn, Part Number G7518D

CAS number : 5X SureSolution 67-68-5
SureVector AmpR 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 T7 E. coli Promoter Not applicable.
SureVector GST E. coli Expression Tag (N-term) Not applicable.
SureVector MBP E. coli Expression Tag (N-term) Not applicable.
SureVector SBP E. coli Expression Tag (N-term) Not applicable.
SureVector LacZ Control (N-term) Not applicable.
SureVector Enzyme Mix Not applicable.
10X SureVector Buffer Not applicable.
dNTP Mix Not applicable.
DpnI Not applicable.

Part no. (chemical kit) : G7518D

Part no. : 5X SureSolution 5190-8625
SureVector AmpR 5190-8807
Selectable Marker
SureVector pUC Origin 5190-8810
SureVector XP1 Linker 5190-8811
SureVector Lacl 5190-8812
Repressor
SureVector T7-HIS6 E. coli Promoter 5190-8813
SureVector T7 E. coli Promoter 5190-8818
SureVector GST E. coli Expression Tag (N-term) 5190-8824
SureVector MBP E. coli Expression Tag (N-term) 5190-8825
SureVector SBP E. coli Expression Tag (N-term) 5190-8826
SureVector LacZ Control (N-term) 5190-8814
SureVector Enzyme Mix 5190-8621
10X SureVector Buffer 5190-8622
dNTP Mix 200518-56
DpnI 5190-8624

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

Material uses : Analytical reagent.

SureVector E. coli N-terminal Tag kit, 5 rxn, Part Number G7518D

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

| | |
|--|-------------------------|
| 5X SureSolution | 0.1 (15 reactions) |
| SureVector AmpR Selectable Marker | 0.01 ml (5 reactions) |
| SureVector pUC Origin | 0.01 ml (5 reactions) |
| SureVector XP1 Linker | 0.01 ml (5 reactions) |
| SureVector LacI Repressor | 0.01 ml (5 reactions) |
| SureVector T7-HIS6 E. coli Promoter | 0.01 ml (5 reactions) |
| SureVector T7 E. coli Promoter | 0.01 ml (5 reactions) |
| SureVector GST E. coli Expression Tag (N-term) | 0.01 ml (5 reactions) |
| SureVector MBP E. coli Expression Tag (N-term) | 0.01 ml (5 reactions) |
| SureVector SBP E. coli Expression Tag (N-term) | 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) |
| dNTP Mix | 0.03 ml |
| DpnI | 0.015 ml (15 reactions) |

1.3 Details of the supplier of the safety data sheet

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

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

1.4 Emergency telephone number

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

| | | |
|---------------------------|--|----------------------------|
| Product definition | : 5X SureSolution | Mono-constituent substance |
| | SureVector AmpR Selectable Marker | Mixture |
| | SureVector pUC Origin | Mixture |
| | SureVector XP1 Linker | Mixture |
| | SureVector LacI Repressor | Mixture |
| | SureVector T7-HIS6 E. coli Promoter | Mixture |
| | SureVector T7 E. coli Promoter | Mixture |
| | SureVector GST E. coli Expression Tag (N-term) | Mixture |
| | SureVector MBP E. coli Expression Tag (N-term) | Mixture |
| | SureVector SBP E. coli Expression Tag (N-term) | Mixture |
| | SureVector LacZ Control (N-term) | Mixture |
| | SureVector Enzyme Mix | Mixture |
| | 10X SureVector Buffer | Mixture |
| | dNTP Mix | Mixture |

SureVector E. coli N-terminal Tag kit, 5 rxn, Part Number G7518D

SECTION 2: Hazards identification

Dpnl

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%

Dpnl

Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%

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

Hazard pictograms

: 10X SureVector Buffer



Signal word

: 5X SureSolution

No signal word.

SureVector AmpR

No signal word.

Selectable Marker

SureVector pUC Origin

No signal word.

SureVector XP1 Linker

No signal word.

SureVector LacI

No signal word.

Repressor

SureVector T7-HIS6 E. coli Promoter

No signal word.

SureVector T7 E. coli Promoter

No signal word.

SureVector GST E. coli Expression Tag (N-term)

No signal word.

SureVector MBP E. coli Expression Tag (N-term)

No signal word.

SureVector SBP E. coli Expression Tag (N-term)

No signal word.

SureVector LacZ Control (N-term)

No signal word.

SureVector Enzyme Mix

No signal word.

10X SureVector Buffer

Warning

dNTP Mix

No signal word.

Dpnl

No signal word.

Hazard statements

: 5X SureSolution

No known significant effects or critical hazards.

SureVector AmpR

No known significant effects or critical hazards.

Selectable Marker

SureVector pUC Origin

No known significant effects or critical hazards.

SureVector XP1 Linker

No known significant effects or critical hazards.

SureVector LacI

No known significant effects or critical hazards.

Repressor

SureVector T7-HIS6 E. coli Promoter

No known significant effects or critical hazards.

SureVector T7 E. coli Promoter

No known significant effects or critical hazards.

SureVector GST E. coli Expression Tag (N-term)

No known significant effects or critical hazards.

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SECTION 2: Hazards identification

| | |
|--|---|
| SureVector MBP E. coli Expression Tag (N-term) | No known significant effects or critical hazards. |
| SureVector SBP E. coli Expression Tag (N-term) | No known significant effects or critical hazards. |
| SureVector LacZ Control (N-term) | No known significant effects or critical hazards. |
| SureVector Enzyme Mix | No known significant effects or critical hazards. |
| 10X SureVector Buffer | H319 - Causes serious eye irritation. |
| dNTP Mix | No known significant effects or critical hazards. |
| DpnI | No known significant effects or critical hazards. |

Precautionary statements

Prevention

| | |
|--|-------------------------------------|
| : 5X SureSolution | Not applicable. |
| SureVector AmpR Selectable Marker | Not applicable. |
| SureVector pUC Origin | Not applicable. |
| SureVector XP1 Linker | Not applicable. |
| SureVector LacI Repressor | Not applicable. |
| SureVector T7-HIS6 E. coli Promoter | Not applicable. |
| SureVector T7 E. coli Promoter | Not applicable. |
| SureVector GST E. coli Expression Tag (N-term) | Not applicable. |
| SureVector MBP E. coli Expression Tag (N-term) | Not applicable. |
| SureVector SBP E. coli Expression Tag (N-term) | Not applicable. |
| SureVector LacZ Control (N-term) | Not applicable. |
| SureVector Enzyme Mix | Not applicable. |
| 10X SureVector Buffer | P280 - Wear eye or face protection. |
| dNTP Mix | Not applicable. |
| DpnI | Not applicable. |

Response

| | |
|--|---|
| : 5X SureSolution | Not applicable. |
| SureVector AmpR Selectable Marker | Not applicable. |
| SureVector pUC Origin | Not applicable. |
| SureVector XP1 Linker | Not applicable. |
| SureVector LacI Repressor | Not applicable. |
| SureVector T7-HIS6 E. coli Promoter | Not applicable. |
| SureVector T7 E. coli Promoter | Not applicable. |
| SureVector GST E. coli Expression Tag (N-term) | Not applicable. |
| SureVector MBP E. coli Expression Tag (N-term) | Not applicable. |
| SureVector SBP E. coli Expression Tag (N-term) | Not applicable. |
| SureVector LacZ Control (N-term) | Not applicable. |
| SureVector Enzyme Mix | Not applicable. |
| 10X SureVector Buffer | P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention. |
| dNTP Mix | Not applicable. |
| DpnI | Not applicable. |

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SECTION 2: Hazards identification

| | | |
|------------------------------------|--|---|
| Storage | : 5X SureSolution SureVector AmpR Selectable Marker SureVector pUC Origin SureVector XP1 Linker SureVector Lacl Repressor SureVector T7-HIS6 E. coli Promoter SureVector T7 E. coli Promoter SureVector GST E. coli Expression Tag (N-term) SureVector MBP E. coli Expression Tag (N-term) SureVector SBP E. coli Expression Tag (N-term) SureVector LacZ Control (N-term) SureVector Enzyme Mix 10X SureVector Buffer dNTP Mix DpnI | Not applicable. |
| Disposal | : 5X SureSolution SureVector AmpR Selectable Marker SureVector pUC Origin SureVector XP1 Linker SureVector Lacl Repressor SureVector T7-HIS6 E. coli Promoter SureVector T7 E. coli Promoter SureVector GST E. coli Expression Tag (N-term) SureVector MBP E. coli Expression Tag (N-term) SureVector SBP E. coli Expression Tag (N-term) SureVector LacZ Control (N-term) SureVector Enzyme Mix 10X SureVector Buffer dNTP Mix DpnI | Not applicable. |
| Hazardous ingredients | : SureVector Enzyme Mix 10X SureVector Buffer DpnI | Not applicable. Not applicable. Not applicable. |
| Supplemental label elements | : 5X SureSolution SureVector AmpR Selectable Marker SureVector pUC Origin SureVector XP1 Linker SureVector Lacl Repressor SureVector T7-HIS6 E. coli Promoter SureVector T7 E. coli Promoter SureVector GST E. coli Expression Tag (N-term) | Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. |

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SECTION 2: Hazards identification

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

| | |
|--|---|
| SureVector MBP E. coli Expression Tag (N-term) | Not applicable. |
| SureVector SBP E. coli Expression Tag (N-term) | Not applicable. |
| SureVector LacZ Control (N-term) | Not applicable. |
| SureVector Enzyme Mix | Not applicable. |
| 10X SureVector Buffer | Not applicable. |
| dNTP Mix | Not applicable. |
| DpnI | Safety data sheet available on request. |
| 5X SureSolution | Not applicable. |
| SureVector AmpR Selectable Marker | Not applicable. |
| SureVector pUC Origin | Not applicable. |
| SureVector XP1 Linker | Not applicable. |
| SureVector LacI Repressor | Not applicable. |
| SureVector T7-HIS6 E. coli Promoter | Not applicable. |
| SureVector T7 E. coli Promoter | Not applicable. |
| SureVector GST E. coli Expression Tag (N-term) | Not applicable. |
| SureVector MBP E. coli Expression Tag (N-term) | Not applicable. |
| SureVector SBP E. coli Expression Tag (N-term) | Not applicable. |
| SureVector LacZ Control (N-term) | Not applicable. |
| SureVector Enzyme Mix | Not applicable. |
| 10X SureVector Buffer | Not applicable. |
| dNTP Mix | Not applicable. |
| DpnI | Not applicable. |

Special packaging requirements

Tactile warning of danger

| | |
|--|-----------------|
| 5X SureSolution | Not applicable. |
| SureVector AmpR Selectable Marker | Not applicable. |
| SureVector pUC Origin | Not applicable. |
| SureVector XP1 Linker | Not applicable. |
| SureVector LacI Repressor | Not applicable. |
| SureVector T7-HIS6 E. coli Promoter | Not applicable. |
| SureVector T7 E. coli Promoter | Not applicable. |
| SureVector GST E. coli Expression Tag (N-term) | Not applicable. |
| SureVector MBP E. coli Expression Tag (N-term) | Not applicable. |
| SureVector SBP E. coli Expression Tag (N-term) | Not applicable. |
| SureVector LacZ Control (N-term) | Not applicable. |
| SureVector Enzyme Mix | Not applicable. |
| 10X SureVector Buffer | Not applicable. |
| dNTP Mix | Not applicable. |
| DpnI | Not applicable. |

2.3 Other hazards

SureVector E. coli N-terminal Tag kit, 5 rxn, Part Number G7518D

SECTION 2: Hazards identification

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

| PBT | P | B | T | vPvB | vP | vB |
|-----------------|-----|----|----|------|-----|----|
| 5X SureSolution | | | | | | |
| No | N/A | No | No | No | N/A | No |

| | |
|--|---|
| SureVector AmpR Selectable Marker | This mixture does not contain any substances that are 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 LacI Repressor | This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |
| SureVector T7-HIS6 E. coli Promoter | This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |
| SureVector T7 E. coli Promoter | This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |
| SureVector GST E. coli Expression Tag (N-term) | This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |
| SureVector MBP E. coli Expression Tag (N-term) | This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |
| SureVector SBP E. coli Expression Tag (N-term) | This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |
| SureVector LacZ Control (N-term) | This mixture does not contain any substances that are 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. |
| dNTP Mix | This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |
| DpnI | This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |

Other hazards which do not result in classification

| | |
|--|-------------|
| 5X SureSolution | None known. |
| SureVector AmpR Selectable Marker | None known. |
| SureVector pUC Origin | None known. |
| SureVector XP1 Linker | None known. |
| SureVector LacI Repressor | None known. |
| SureVector T7-HIS6 E. coli Promoter | None known. |
| SureVector T7 E. coli Promoter | None known. |
| SureVector GST E. coli Expression Tag (N-term) | None known. |
| SureVector MBP E. coli Expression Tag (N-term) | None known. |
| SureVector SBP E. coli Expression Tag (N-term) | None known. |
| SureVector LacZ Control (N-term) | None known. |
| SureVector Enzyme Mix | None known. |
| 10X SureVector Buffer | None known. |
| dNTP Mix | None known. |
| DpnI | None known. |

SureVector E. coli N-terminal Tag kit, 5 rxn, Part Number G7518D

SECTION 3: Composition/information on ingredients

| | | | |
|-----------------------|---|--|----------------------------|
| 3.1 Substances | : | 5X SureSolution | Mono-constituent substance |
| | | SureVector AmpR Selectable Marker | Mixture |
| | | SureVector pUC Origin | Mixture |
| | | SureVector XP1 Linker | Mixture |
| | | SureVector LacI Repressor | Mixture |
| | | SureVector T7-HIS6 E. coli Promoter | Mixture |
| | | SureVector T7 E. coli Promoter | Mixture |
| | | SureVector GST E. coli Expression Tag (N-term) | Mixture |
| | | SureVector MBP E. coli Expression Tag (N-term) | Mixture |
| | | SureVector SBP E. coli Expression Tag (N-term) | Mixture |
| | | 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] | Type |
|--|---|-----------|---|---------|
| 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]-.omega.-hydroxy- | 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] |
| DpnI 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 See Section 16 for the full text of the H statements declared above. | [1] |

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

Type

SureVector E. coli N-terminal Tag kit, 5 rxn, Part Number G7518D

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 | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| | SureVector AmpR Selectable Marker | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| | SureVector pUC Origin | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| | SureVector XP1 Linker | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| | SureVector LacI Repressor | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| | SureVector T7-HIS6 E. coli Promoter | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| | SureVector T7 E. coli Promoter | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| | SureVector GST E. coli Expression Tag (N-term) | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| | SureVector MBP E. coli Expression Tag (N-term) | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| | SureVector SBP E. coli Expression Tag (N-term) | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| | SureVector LacZ Control (N-term) | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| | SureVector Enzyme Mix | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| | 10X SureVector Buffer | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. |
| | dNTP Mix | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| | Dpnl | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |

SureVector E. coli N-terminal Tag kit, 5 rxn, Part Number G7518D

SECTION 4: First aid measures

| | | |
|---------------------|--|--|
| Inhalation | : 5X SureSolution | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| | SureVector AmpR Selectable Marker | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| | SureVector pUC Origin | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| | SureVector XP1 Linker | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| | SureVector LacI Repressor | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| | SureVector T7-HIS6 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 T7 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 GST E. coli Expression Tag (N-term) | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| | SureVector MBP E. coli Expression Tag (N-term) | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| | SureVector SBP E. coli Expression Tag (N-term) | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| | SureVector LacZ Control (N-term) | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| | SureVector Enzyme Mix | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| | 10X SureVector Buffer | Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
| | dNTP Mix | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| | DpnI | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| Skin contact | : 5X SureSolution | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| | SureVector AmpR Selectable Marker | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| | SureVector pUC Origin | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if |

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SECTION 4: First aid measures

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|------------------|--|--|
| | SureVector XP1 Linker | symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| | SureVector LacI Repressor | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| | SureVector T7-HIS6 E. coli Promoter | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| | SureVector T7 E. coli Promoter | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| | SureVector GST E. coli Expression Tag (N-term) | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| | SureVector MBP E. coli Expression Tag (N-term) | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| | SureVector SBP E. coli Expression Tag (N-term) | 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. |
| | DpnI | 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 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 LacI 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 |

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SECTION 4: First aid measures

| | |
|--|--|
| SureVector T7-HIS6 E. coli Promoter | symptoms occur. 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 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 GST E. coli Expression Tag (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 symptoms occur. |
| SureVector MBP E. coli Expression Tag (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 symptoms occur. |
| SureVector SBP E. coli Expression Tag (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 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 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. |

SureVector E. coli N-terminal Tag kit, 5 rxn, Part Number G7518D

SECTION 4: First aid measures

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| Protection of first-aiders | : 5X SureSolution SureVector AmpR Selectable Marker SureVector pUC Origin SureVector XP1 Linker SureVector LacI Repressor SureVector T7-HIS6 E. coli Promoter SureVector T7 E. coli Promoter SureVector GST E. coli Expression Tag (N-term) SureVector MBP E. coli Expression Tag (N-term) SureVector SBP E. coli Expression Tag (N-term) SureVector LacZ Control (N-term) SureVector Enzyme Mix 10X SureVector Buffer dNTP Mix DpnI | No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. |
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4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

| | | |
|--------------------|--|--|
| Eye contact | : 5X SureSolution SureVector AmpR Selectable Marker SureVector pUC Origin SureVector XP1 Linker SureVector LacI Repressor SureVector T7-HIS6 E. coli Promoter SureVector T7 E. coli Promoter SureVector GST E. coli Expression Tag (N-term) SureVector MBP E. coli Expression Tag (N-term) SureVector SBP E. coli Expression Tag (N-term) 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. Causes serious eye irritation. No known significant effects or critical hazards. No known significant effects or critical hazards. |
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SECTION 4: First aid measures

| | | |
|---------------------|--|---|
| Inhalation | : 5X SureSolution SureVector AmpR Selectable Marker SureVector pUC Origin SureVector XP1 Linker SureVector LacI Repressor SureVector T7-HIS6 E. coli Promoter SureVector T7 E. coli Promoter SureVector GST E. coli Expression Tag (N-term) SureVector MBP E. coli Expression Tag (N-term) SureVector SBP E. coli Expression Tag (N-term) 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. |
| Skin contact | : 5X SureSolution SureVector AmpR Selectable Marker SureVector pUC Origin SureVector XP1 Linker SureVector LacI Repressor SureVector T7-HIS6 E. coli Promoter SureVector T7 E. coli Promoter SureVector GST E. coli Expression Tag (N-term) SureVector MBP E. coli Expression Tag (N-term) SureVector SBP E. coli Expression Tag (N-term) 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. |
| Ingestion | : 5X SureSolution SureVector AmpR Selectable Marker SureVector pUC Origin SureVector XP1 Linker SureVector LacI Repressor SureVector T7-HIS6 E. coli Promoter SureVector T7 E. coli Promoter SureVector GST E. coli Expression Tag (N-term) SureVector MBP E. coli Expression Tag (N-term) SureVector SBP E. coli | 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. |

SureVector E. coli N-terminal Tag kit, 5 rxn, Part Number G7518D

SECTION 4: First aid measures

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|----------------------------------|---|
| Expression Tag (N-term) | |
| SureVector LacZ Control (N-term) | No known significant effects or critical hazards. |
| SureVector Enzyme Mix | No known significant effects or critical hazards. |
| 10X SureVector Buffer | No known significant effects or critical hazards. |
| dNTP Mix | No known significant effects or critical hazards. |
| DpnI | No known significant effects or critical hazards. |

Over-exposure signs/symptoms

Eye contact

| | |
|-------------------------------------|--|
| : 5X SureSolution | No specific data. |
| SureVector AmpR | No specific data. |
| Selectable Marker | |
| SureVector pUC Origin | No specific data. |
| SureVector XP1 Linker | No specific data. |
| SureVector LacI | No specific data. |
| Repressor | |
| SureVector T7-HIS6 E. coli Promoter | No specific data. |
| SureVector T7 E. coli Promoter | No specific data. |
| SureVector GST E. coli | No specific data. |
| Expression Tag (N-term) | |
| SureVector MBP E. coli | No specific data. |
| Expression Tag (N-term) | |
| SureVector SBP E. coli | No specific data. |
| Expression Tag (N-term) | |
| SureVector LacZ Control (N-term) | No specific data. |
| SureVector Enzyme Mix | No specific data. |
| 10X SureVector Buffer | Adverse symptoms may include the following: pain or irritation watering redness |
| dNTP Mix | No specific data. |
| DpnI | No specific data. |

Inhalation

| | |
|-------------------------------------|-------------------|
| : 5X SureSolution | No specific data. |
| SureVector AmpR | No specific data. |
| Selectable Marker | |
| SureVector pUC Origin | No specific data. |
| SureVector XP1 Linker | No specific data. |
| SureVector LacI | No specific data. |
| Repressor | |
| SureVector T7-HIS6 E. coli Promoter | No specific data. |
| SureVector T7 E. coli Promoter | No specific data. |
| SureVector GST E. coli | No specific data. |
| Expression Tag (N-term) | |
| SureVector MBP E. coli | No specific data. |
| Expression Tag (N-term) | |
| SureVector SBP E. coli | No specific data. |
| Expression Tag (N-term) | |
| SureVector LacZ Control (N-term) | No specific data. |
| SureVector Enzyme Mix | No specific data. |
| 10X SureVector Buffer | No specific data. |
| dNTP Mix | No specific data. |
| DpnI | No specific data. |

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SECTION 4: First aid measures

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| Skin contact | : 5X SureSolution SureVector AmpR Selectable Marker SureVector pUC Origin SureVector XP1 Linker SureVector LacI Repressor SureVector T7-HIS6 E. coli Promoter SureVector T7 E. coli Promoter SureVector GST E. coli Expression Tag (N-term) SureVector MBP E. coli Expression Tag (N-term) SureVector SBP E. coli Expression Tag (N-term) SureVector LacZ Control (N-term) SureVector Enzyme Mix 10X SureVector Buffer dNTP Mix DpnI | No specific data. |
| Ingestion | : 5X SureSolution SureVector AmpR Selectable Marker SureVector pUC Origin SureVector XP1 Linker SureVector LacI Repressor SureVector T7-HIS6 E. coli Promoter SureVector T7 E. coli Promoter SureVector GST E. coli Expression Tag (N-term) SureVector MBP E. coli Expression Tag (N-term) SureVector SBP E. coli Expression Tag (N-term) SureVector LacZ Control (N-term) SureVector Enzyme Mix 10X SureVector Buffer dNTP Mix DpnI | 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 pUC Origin SureVector XP1 Linker SureVector LacI Repressor SureVector T7-HIS6 E. coli Promoter SureVector T7 E. coli Promoter | 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. |
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SECTION 4: First aid measures

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| | SureVector GST E. coli Expression Tag (N-term) | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| | SureVector MBP E. coli Expression Tag (N-term) | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| | SureVector SBP E. coli Expression Tag (N-term) | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| | SureVector LacZ Control (N-term) | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| | SureVector Enzyme Mix | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| | 10X SureVector Buffer | In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
| | dNTP Mix | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| | Dpnl | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| Specific treatments | : 5X SureSolution | No specific treatment. |
| | SureVector AmpR Selectable Marker | No specific treatment. |
| | SureVector pUC Origin | No specific treatment. |
| | SureVector XP1 Linker | No specific treatment. |
| | SureVector LacI Repressor | No specific treatment. |
| | SureVector T7-HIS6 E. coli Promoter | No specific treatment. |
| | SureVector T7 E. coli Promoter | No specific treatment. |
| | SureVector GST E. coli Expression Tag (N-term) | No specific treatment. |
| | SureVector MBP E. coli Expression Tag (N-term) | No specific treatment. |
| | SureVector SBP E. coli Expression Tag (N-term) | No specific treatment. |
| | SureVector LacZ Control (N-term) | No specific treatment. |
| | SureVector Enzyme Mix | No specific treatment. |
| | 10X SureVector Buffer | No specific treatment. |
| | dNTP Mix | No specific treatment. |
| | Dpnl | No specific treatment. |

SECTION 5: Firefighting measures

5.1 Extinguishing media

| | | |
|-------------------------------------|--|---|
| Suitable extinguishing media | : 5X SureSolution | Use an extinguishing agent suitable for the surrounding fire. |
| | SureVector AmpR Selectable Marker | Use an extinguishing agent suitable for the surrounding fire. |
| | SureVector pUC Origin | Use an extinguishing agent suitable for the surrounding fire. |
| | SureVector XP1 Linker | Use an extinguishing agent suitable for the surrounding fire. |
| | SureVector LacI Repressor | Use an extinguishing agent suitable for the surrounding fire. |
| | SureVector T7-HIS6 E. coli Promoter | Use an extinguishing agent suitable for the surrounding fire. |
| | SureVector T7 E. coli Promoter | Use an extinguishing agent suitable for the surrounding fire. |
| | SureVector GST E. coli Expression Tag (N-term) | Use an extinguishing agent suitable for the surrounding fire. |
| | SureVector MBP E. coli Expression Tag (N-term) | Use an extinguishing agent suitable for the surrounding fire. |
| | SureVector SBP E. coli Expression Tag (N-term) | Use an extinguishing agent suitable for the surrounding fire. |
| | SureVector LacZ Control (N-term) | Use an extinguishing agent suitable for the surrounding fire. |

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SECTION 5: Firefighting measures

| | | |
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| | SureVector Enzyme Mix | Use an extinguishing agent suitable for the surrounding fire. |
| | 10X SureVector Buffer | Use an extinguishing agent suitable for the surrounding fire. |
| | dNTP Mix | Use an extinguishing agent suitable for the surrounding fire. |
| | DpnI | Use an extinguishing agent suitable for the surrounding fire. |
| Unsuitable extinguishing media | 5X SureSolution | None known. |
| | SureVector AmpR | None known. |
| | Selectable Marker | |
| | SureVector pUC Origin | None known. |
| | SureVector XP1 Linker | None known. |
| | SureVector LacI | None known. |
| | Repressor | |
| | SureVector T7-HIS6 E. coli Promoter | None known. |
| | SureVector T7 E. coli Promoter | None known. |
| | SureVector GST E. coli Expression Tag (N-term) | None known. |
| | SureVector MBP E. coli Expression Tag (N-term) | None known. |
| | SureVector SBP E. coli Expression Tag (N-term) | None known. |
| | SureVector LacZ Control (N-term) | None known. |
| | SureVector Enzyme Mix | None known. |
| | 10X SureVector Buffer | None known. |
| | dNTP Mix | None known. |
| | DpnI | None known. |

5.2 Special hazards arising from the substance or mixture

| | | |
|--|--|---|
| Hazards from the substance or mixture | 5X SureSolution | In a fire or if heated, a pressure increase will occur and the container may burst. |
| | SureVector AmpR | In a fire or if heated, a pressure increase will occur and the container may burst. |
| | Selectable Marker | |
| | SureVector pUC Origin | In a fire or if heated, a pressure increase will occur and the container may burst. |
| | SureVector XP1 Linker | In a fire or if heated, a pressure increase will occur and the container may burst. |
| | SureVector LacI | In a fire or if heated, a pressure increase will occur and the container may burst. |
| | Repressor | |
| | SureVector T7-HIS6 E. coli Promoter | In a fire or if heated, a pressure increase will occur and the container may burst. |
| | SureVector T7 E. coli Promoter | In a fire or if heated, a pressure increase will occur and the container may burst. |
| | SureVector GST E. coli Expression Tag (N-term) | In a fire or if heated, a pressure increase will occur and the container may burst. |
| | SureVector MBP E. coli Expression Tag (N-term) | In a fire or if heated, a pressure increase will occur and the container may burst. |
| | SureVector SBP E. coli Expression Tag (N-term) | In a fire or if heated, a pressure increase will occur and the container may burst. |
| | SureVector LacZ Control (N-term) | In a fire or if heated, a pressure increase will occur and the container may burst. |
| | SureVector Enzyme Mix | In a fire or if heated, a pressure increase will occur and the container may burst. |
| | 10X SureVector Buffer | In a fire or if heated, a pressure increase will occur and the container may burst. |
| | dNTP Mix | In a fire or if heated, a pressure increase will occur and the container may burst. |
| | DpnI | In a fire or if heated, a pressure increase will occur and the container may burst. |

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SECTION 5: Firefighting measures

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| Hazardous combustion products | : 5X SureSolution | Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides |
| | SureVector AmpR Selectable Marker | No specific data. |
| | SureVector pUC Origin | No specific data. |
| | SureVector XP1 Linker | No specific data. |
| | SureVector LacI Repressor | No specific data. |
| | SureVector T7-HIS6 E. coli Promoter | No specific data. |
| | SureVector T7 E. coli Promoter | No specific data. |
| | SureVector GST E. coli Expression Tag (N-term) | No specific data. |
| | SureVector MBP E. coli Expression Tag (N-term) | No specific data. |
| | SureVector SBP E. coli Expression Tag (N-term) | No specific data. |
| | SureVector LacZ Control (N-term) | No specific data. |
| | SureVector Enzyme Mix | Decomposition products may include the following materials: carbon dioxide carbon monoxide |
| | 10X SureVector Buffer | Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides halogenated compounds metal oxide/oxides |
| | dNTP Mix | No specific data. |
| | DpnI | Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides |

5.3 Advice for firefighters

| | | |
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| Special precautions for fire-fighters | : 5X SureSolution | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| | SureVector AmpR Selectable Marker | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| | SureVector pUC Origin | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| | SureVector XP1 Linker | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| | SureVector LacI Repressor | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| | SureVector T7-HIS6 E. coli Promoter | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| | SureVector T7 E. coli Promoter | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| | SureVector GST E. coli | Promptly isolate the scene by removing all persons from the |

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SECTION 5: Firefighting measures

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

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SECTION 5: Firefighting measures

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

| | | |
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| 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. |

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SECTION 6: Accidental release measures

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| | 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 LacI Repressor | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment. |
| SureVector T7-HIS6 <i>E. coli</i> Promoter | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment. |
| SureVector T7 <i>E. coli</i> Promoter | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment. |
| SureVector GST <i>E. coli</i> Expression Tag (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 MBP <i>E. coli</i> Expression Tag (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 SBP <i>E. coli</i> Expression Tag (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 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

For emergency responders

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

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take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

| | |
|---|---|
| : 5X SureSolution | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| SureVector AmpR Selectable Marker | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| SureVector pUC Origin | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| SureVector XP1 Linker | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| SureVector LacI Repressor | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| SureVector T7-HIS6 <i>E. coli</i> Promoter | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| SureVector T7 <i>E. coli</i> 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 GST <i>E. coli</i> Expression Tag (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 MBP <i>E. coli</i> Expression Tag (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 SBP <i>E. coli</i> Expression Tag (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 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 |

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(sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : 5X SureSolution

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| | Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
| SureVector AmpR Selectable Marker | Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
| SureVector pUC Origin | Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
| SureVector XP1 Linker | Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
| SureVector LacI Repressor | Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
| SureVector T7-HIS6 <i>E. coli</i> Promoter | Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
| SureVector T7 <i>E. coli</i> Promoter | Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
| SureVector GST <i>E. coli</i> Expression Tag (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 MBP <i>E. coli</i> Expression Tag (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 SBP <i>E. coli</i> Expression Tag (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 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 |

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

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

SECTION 7: Handling and storage

7.1 Precautions for safe handling

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

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SECTION 7: Handling and storage

Advice on general occupational hygiene

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

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

7.2 Conditions for safe storage, including any incompatibilities

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

SureVector AmpR Selectable Marker

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

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SECTION 7: Handling and storage

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| | <p>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.</p> |
| SureVector LacI Repressor | <p>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.</p> |
| SureVector T7-HIS6 E. coli Promoter | <p>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.</p> |
| SureVector T7 E. coli Promoter | <p>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.</p> |
| SureVector GST E. coli Expression Tag (N-term) | <p>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.</p> |
| SureVector MBP E. coli Expression Tag (N-term) | <p>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.</p> |
| SureVector SBP E. coli Expression Tag (N-term) | <p>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.</p> |

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| | 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 8: Exposure controls/personal protection

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

DNELs/DMELs

| Product/ingredient name | Type | Exposure | Value | Population | Effects |
|---|------|-----------------------|---------------------------|--------------------|----------|
| 5X SureSolution Dimethyl sulfoxide | DNEL | Long term Inhalation | 47 mg/m ³ | 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/m ³ | 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/m ³ | Workers | Systemic |
| 10X SureVector Buffer Ammonium sulphate | DNEL | Long term Inhalation | 1.667 mg/m ³ | General population | Systemic |
| | DNEL | Long term Oral | 6.4 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 11.167 mg/m ³ | 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/m ³ | Workers | Systemic |

SureVector *E. coli* N-terminal Tag kit, 5 rxn, Part Number G7518D

SECTION 8: Exposure controls/personal protection

| | | | | | |
|--|------|----------------------|---------------------------|---------|----------|
| | 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.

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 side-shields.

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.] |
| | SureVector AmpR | Liquid. |
| | Selectable Marker | |
| | SureVector pUC Origin | Liquid. |
| | SureVector XP1 Linker | Liquid. |
| | SureVector Lacl | Liquid. |
| | Repressor | |
| | SureVector T7-HIS6 E. coli Promoter | Liquid. |
| | SureVector T7 E. coli Promoter | Liquid. |
| | SureVector GST E. coli Expression Tag (N-term) | Liquid. |
| | SureVector MBP E. coli | Liquid. |

SureVector E. coli N-terminal Tag kit, 5 rxn, Part Number G7518D

SECTION 9: Physical and chemical properties

| | | |
|---------------|-------------------------------------|---------------------|
| | Expression Tag (N-term) | |
| | SureVector SBP E. coli | Liquid. |
| | Expression Tag (N-term) | |
| | SureVector LacZ Control (N-term) | Liquid. |
| | SureVector Enzyme Mix | Liquid. |
| | 10X SureVector Buffer | Liquid. |
| | dNTP Mix | Liquid. |
| | DpnI | Liquid. |
| Colour | : 5X SureSolution | Blue. |
| | SureVector AmpR | Not available. |
| | Selectable Marker | |
| | SureVector pUC Origin | Not available. |
| | SureVector XP1 Linker | Not available. |
| | SureVector LacI | Not available. |
| | Repressor | |
| | SureVector T7-HIS6 E. coli Promoter | Not available. |
| | SureVector T7 E. coli Promoter | Not available. |
| | SureVector GST E. coli | Not available. |
| | Expression Tag (N-term) | |
| | SureVector MBP E. coli | Not available. |
| | Expression Tag (N-term) | |
| | SureVector SBP E. coli | Not available. |
| | Expression Tag (N-term) | |
| | SureVector LacZ Control (N-term) | Not available. |
| | SureVector Enzyme Mix | Not available. |
| | 10X SureVector Buffer | Not available. |
| | dNTP Mix | Not available. |
| | DpnI | Not available. |
| Odour | : 5X SureSolution | Odourless. [Slight] |
| | SureVector AmpR | Not available. |
| | Selectable Marker | |
| | SureVector pUC Origin | Not available. |
| | SureVector XP1 Linker | Not available. |
| | SureVector LacI | Not available. |
| | Repressor | |
| | SureVector T7-HIS6 E. coli Promoter | Not available. |
| | SureVector T7 E. coli Promoter | Not available. |
| | SureVector GST E. coli | Not available. |
| | Expression Tag (N-term) | |
| | SureVector MBP E. coli | Not available. |
| | Expression Tag (N-term) | |
| | SureVector SBP E. coli | Not available. |
| | Expression Tag (N-term) | |
| | SureVector LacZ Control (N-term) | Not available. |
| | SureVector Enzyme Mix | Not available. |
| | 10X SureVector Buffer | Not available. |
| | dNTP Mix | Not available. |
| | DpnI | Not available. |

SureVector E. coli N-terminal Tag kit, 5 rxn, Part Number G7518D

SECTION 9: Physical and chemical properties

| | | | |
|--|---|--|-----------------|
| Odour threshold | : | 5X SureSolution | Not available. |
| | | SureVector AmpR | Not available. |
| | | Selectable Marker | |
| | | SureVector pUC Origin | Not available. |
| | | SureVector XP1 Linker | Not available. |
| | | SureVector Lacl | Not available. |
| | | Repressor | |
| | | SureVector T7-HIS6 E. coli Promoter | Not available. |
| | | SureVector T7 E. coli Promoter | Not available. |
| | | SureVector GST E. coli Expression Tag (N-term) | Not available. |
| | | SureVector MBP E. coli Expression Tag (N-term) | Not available. |
| | | SureVector SBP E. coli Expression Tag (N-term) | Not available. |
| | | SureVector LacZ Control (N-term) | Not available. |
| | | SureVector Enzyme Mix | Not available. |
| | | 10X SureVector Buffer | Not available. |
| | | dNTP Mix | Not available. |
| | | Dpnl | Not available. |
| Melting point/freezing point | : | 5X SureSolution | 18.5°C |
| | | SureVector AmpR | 0°C |
| | | Selectable Marker | |
| | | SureVector pUC Origin | 0°C |
| | | SureVector XP1 Linker | 0°C |
| | | SureVector Lacl | 0°C |
| | | Repressor | |
| | | SureVector T7-HIS6 E. coli Promoter | 0°C |
| | | SureVector T7 E. coli Promoter | 0°C |
| | | SureVector GST E. coli Expression Tag (N-term) | 0°C |
| | | SureVector MBP E. coli Expression Tag (N-term) | 0°C |
| | | SureVector SBP E. coli Expression Tag (N-term) | 0°C |
| | | SureVector LacZ Control (N-term) | 0°C |
| | | SureVector Enzyme Mix | Not available. |
| | | 10X SureVector Buffer | Not available. |
| | | dNTP Mix | 0°C |
| | | Dpnl | Not available. |
| Initial boiling point and boiling range | : | 5X SureSolution | 189°C (372.2°F) |
| | | SureVector AmpR | 100°C (212°F) |
| | | Selectable Marker | |
| | | SureVector pUC Origin | 100°C (212°F) |
| | | SureVector XP1 Linker | 100°C (212°F) |
| | | SureVector Lacl | 100°C (212°F) |
| | | Repressor | |
| | | SureVector T7-HIS6 E. coli Promoter | 100°C (212°F) |
| | | SureVector T7 E. coli Promoter | 100°C (212°F) |
| | | SureVector GST E. coli Expression Tag (N-term) | 100°C (212°F) |
| | | SureVector MBP E. coli Expression Tag (N-term) | 100°C (212°F) |
| | | SureVector SBP E. coli | 100°C (212°F) |

SureVector E. coli N-terminal Tag kit, 5 rxn, Part Number G7518D

SECTION 9: Physical and chemical properties

| | | |
|---|-------------------------------------|--|
| | Expression Tag (N-term) | |
| | SureVector LacZ Control (N-term) | 100°C (212°F) |
| | 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 pUC Origin | Not applicable. |
| | SureVector XP1 Linker | Not applicable. |
| | SureVector LacI | Not applicable. |
| | Repressor | |
| | SureVector T7-HIS6 E. coli Promoter | Not applicable. |
| | SureVector T7 E. coli Promoter | Not applicable. |
| | SureVector GST E. coli | Not applicable. |
| | Expression Tag (N-term) | |
| | SureVector MBP E. coli | Not applicable. |
| | Expression Tag (N-term) | |
| | SureVector SBP E. coli | Not applicable. |
| | Expression Tag (N-term) | |
| | SureVector LacZ Control (N-term) | Not applicable. |
| | SureVector Enzyme Mix | Not applicable. |
| | 10X SureVector Buffer | Not applicable. |
| | dNTP Mix | Not applicable. |
| | Dpnl | Not applicable. |
| Upper/lower flammability or explosive limits | 5X SureSolution | Lower: 2.6% Upper: 28.5% |
| | SureVector AmpR | Not available. |
| | Selectable Marker | |
| | SureVector pUC Origin | Not available. |
| | SureVector XP1 Linker | Not available. |
| | SureVector LacI | Not available. |
| | Repressor | |
| | SureVector T7-HIS6 E. coli Promoter | Not available. |
| | SureVector T7 E. coli Promoter | Not available. |
| | SureVector GST E. coli | Not available. |
| | Expression Tag (N-term) | |
| | SureVector MBP E. coli | Not available. |
| | Expression Tag (N-term) | |
| | SureVector SBP E. coli | Not available. |
| | Expression Tag (N-term) | |
| | SureVector LacZ Control (N-term) | Not available. |
| | SureVector Enzyme Mix | Not available. |
| | 10X SureVector Buffer | Not available. |
| | dNTP Mix | Not available. |
| | Dpnl | Not available. |
| Flash point | 5X SureSolution | Closed cup: 87°C (188.6°F) [ASTM D 93] Open cup: 87°C (188.6°F) |
| | SureVector AmpR | Not available. |
| | Selectable Marker | |
| | SureVector pUC Origin | Not available. |
| | SureVector XP1 Linker | Not available. |
| | SureVector LacI | Not available. |
| | Repressor | |

SureVector E. coli N-terminal Tag kit, 5 rxn, Part Number G7518D

SECTION 9: Physical and chemical properties

SureVector T7-HIS6 E. coli Promoter Not available.
 SureVector T7 E. coli Promoter Not available.
 SureVector GST E. coli Expression Tag (N-term) Not available.
 SureVector MBP E. coli Expression Tag (N-term) Not available.
 SureVector SBP E. coli Expression Tag (N-term) Not available.
 SureVector LacZ Control (N-term) Not available.
 SureVector Enzyme Mix 10X SureVector Buffer dNTP Mix DpnI Not available.

| Ingredient name | Closed cup | | | Open cup | | |
|---|------------|------|-----------|----------|----|--------|
| | °C | °F | Method | °C | °F | Method |
| SureVector AmpR Selectable Marker | | | | | | |
| Edetic acid | >100 | >212 | DIN 51758 | | | |
| SureVector pUC Origin | | | | | | |
| Edetic acid | >100 | >212 | DIN 51758 | | | |
| SureVector XP1 Linker | | | | | | |
| Edetic acid | >100 | >212 | DIN 51758 | | | |
| SureVector Lacl Repressor | | | | | | |
| Edetic acid | >100 | >212 | DIN 51758 | | | |
| SureVector T7-HIS6 E. coli Promoter | | | | | | |
| Edetic acid | >100 | >212 | DIN 51758 | | | |
| SureVector T7 E. coli Promoter | | | | | | |
| Edetic acid | >100 | >212 | DIN 51758 | | | |
| SureVector GST E. coli Expression Tag (N-term) | | | | | | |
| Edetic acid | >100 | >212 | DIN 51758 | | | |
| SureVector MBP E. coli Expression Tag (N-term) | | | | | | |
| Edetic acid | >100 | >212 | DIN 51758 | | | |
| SureVector SBP E. coli Expression Tag (N-term) | | | | | | |
| Edetic acid | >100 | >212 | DIN 51758 | | | |
| SureVector LacZ Control (N-term) | | | | | | |
| Edetic acid | >100 | >212 | DIN 51758 | | | |

SureVector E. coli N-terminal Tag kit, 5 rxn, Part Number G7518D

SECTION 9: Physical and chemical properties

| | | | |
|---|---------|--------|-----------|
| SureVector Enzyme Mix | | | |
| Edetic acid | >100 | >212 | DIN 51758 |
| Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy- | >109.85 | >229.7 | |
| 10X SureVector Buffer | | | |
| Polyoxyethylene octyl phenyl ether | >109.85 | >229.7 | |
| dNTP Mix | | | |
| Edetic acid | >100 | >212 | DIN 51758 |
| Dpnl | | | |
| Edetic acid | >100 | >212 | DIN 51758 |
| (R*,R*)-1,4-Dimercaptobutane-2,3-diol | >110 | >230 | |

Auto-ignition temperature

- : 5X SureSolution 300 to 302°C (572 to 575.6°F)
- SureVector AmpR Selectable Marker Not available.
- SureVector pUC Origin Not available.
- SureVector XP1 Linker Not available.
- SureVector LacI Repressor Not available.
- SureVector T7-HIS6 E. coli Promoter Not available.
- SureVector T7 E. coli Promoter Not available.
- SureVector GST E. coli Expression Tag (N-term) Not available.
- SureVector MBP E. coli Expression Tag (N-term) Not available.
- SureVector SBP E. coli Expression Tag (N-term) Not available.
- SureVector LacZ Control (N-term) Not available.
- SureVector Enzyme Mix Not available.
- 10X SureVector Buffer Not available.
- dNTP Mix Not available.
- Dpnl Not available.

| Ingredient name | °C | °F | Method |
|--|------|------|----------|
| SureVector AmpR 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 LacI Repressor | | | |
| Edetic acid | >400 | >752 | VDI 2263 |

SureVector E. coli N-terminal Tag kit, 5 rxn, Part Number G7518D

SECTION 9: Physical and chemical properties

| | | | |
|---|------|------|----------|
| SureVector T7-HIS6 E. coli Promoter | | | |
| Edetic acid | >400 | >752 | VDI 2263 |
| SureVector T7 E. coli Promoter | | | |
| Edetic acid | >400 | >752 | VDI 2263 |
| SureVector GST E. coli Expression Tag (N-term) | | | |
| Edetic acid | >400 | >752 | VDI 2263 |
| SureVector MBP E. coli Expression Tag (N-term) | | | |
| Edetic acid | >400 | >752 | VDI 2263 |
| SureVector SBP E. coli Expression Tag (N-term) | | | |
| 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 |
| dNTP Mix | | | |
| Edetic acid | >400 | >752 | VDI 2263 |
| Dpnl | | | |
| Glycerol | 370 | 698 | |
| Edetic acid | >400 | >752 | VDI 2263 |

Decomposition temperature

| | |
|--|----------------|
| : 5X SureSolution | 140 to 189°C |
| SureVector AmpR | Not available. |
| Selectable Marker | |
| SureVector pUC Origin | Not available. |
| SureVector XP1 Linker | Not available. |
| SureVector LacI | Not available. |
| Repressor | |
| SureVector T7-HIS6 E. coli Promoter | Not available. |
| SureVector T7 E. coli Promoter | Not available. |
| SureVector GST E. coli Expression Tag (N-term) | Not available. |
| SureVector MBP E. coli Expression Tag (N-term) | Not available. |
| SureVector SBP E. coli Expression Tag (N-term) | Not available. |
| SureVector LacZ Control (N-term) | Not available. |
| SureVector Enzyme Mix | Not available. |
| 10X SureVector Buffer | Not available. |
| dNTP Mix | Not available. |
| Dpnl | Not available. |

SureVector *E. coli* N-terminal Tag kit, 5 rxn, Part Number G7518D

SECTION 9: Physical and chemical properties

| | | |
|------------------------|---|--|
| pH | : 5X SureSolution SureVector AmpR Selectable Marker SureVector pUC Origin SureVector XP1 Linker SureVector Lacl Repressor SureVector T7-HIS6 <i>E. coli</i> Promoter SureVector T7 <i>E. coli</i> Promoter SureVector GST <i>E. coli</i> Expression Tag (N-term) SureVector MBP <i>E. coli</i> Expression Tag (N-term) SureVector SBP <i>E. coli</i> Expression Tag (N-term) SureVector LacZ Control (N-term) SureVector Enzyme Mix 10X SureVector Buffer dNTP Mix DpnI | Not available. 8 8 8 8 8 8 8 8 8 8 8 8.2 8.8 7.5 7.5 |
| Viscosity | : 5X SureSolution SureVector AmpR Selectable Marker SureVector pUC Origin SureVector XP1 Linker SureVector Lacl Repressor SureVector T7-HIS6 <i>E. coli</i> Promoter SureVector T7 <i>E. coli</i> Promoter SureVector GST <i>E. coli</i> Expression Tag (N-term) SureVector MBP <i>E. coli</i> Expression Tag (N-term) SureVector SBP <i>E. coli</i> Expression Tag (N-term) SureVector LacZ Control (N-term) SureVector Enzyme Mix 10X SureVector Buffer dNTP Mix DpnI | Dynamic: 2.14 mPa·s Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. |
| Solubility(ies) | : 5X SureSolution SureVector AmpR Selectable Marker SureVector pUC Origin SureVector XP1 Linker SureVector Lacl Repressor SureVector T7-HIS6 <i>E. coli</i> Promoter SureVector T7 <i>E. coli</i> Promoter SureVector GST <i>E. coli</i> Expression Tag (N-term) | Easily soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water. |

SureVector E. coli N-terminal Tag kit, 5 rxn, Part Number G7518D

SECTION 9: Physical and chemical properties

| | | |
|---|--|--|
| | SureVector MBP E. coli Expression Tag (N-term) | Easily soluble in the following materials: cold water and hot water. |
| | SureVector SBP E. coli Expression Tag (N-term) | Easily soluble in the following materials: cold water and hot water. |
| | SureVector LacZ Control (N-term) | Easily soluble in the following materials: cold water and hot water. |
| | SureVector Enzyme Mix | Soluble in the following materials: cold water and hot water. |
| | 10X SureVector Buffer | Easily soluble in the following materials: cold water and hot water. |
| | dNTP Mix | Easily soluble in the following materials: cold water and hot water. |
| | DpnI | Soluble in the following materials: cold water and hot water. |
| Partition coefficient: n-octanol/water | : 5X SureSolution | -1.35 |
| | SureVector AmpR Selectable Marker | Not applicable. |
| | SureVector pUC Origin | Not applicable. |
| | SureVector XP1 Linker | Not applicable. |
| | SureVector LacI Repressor | Not applicable. |
| | SureVector T7-HIS6 E. coli Promoter | Not applicable. |
| | SureVector T7 E. coli Promoter | Not applicable. |
| | SureVector GST E. coli Expression Tag (N-term) | Not applicable. |
| | SureVector MBP E. coli Expression Tag (N-term) | Not applicable. |
| | SureVector SBP E. coli Expression Tag (N-term) | Not applicable. |
| | SureVector LacZ Control (N-term) | Not applicable. |
| | SureVector Enzyme Mix | Not applicable. |
| | 10X SureVector Buffer | Not applicable. |
| | dNTP Mix | Not applicable. |
| | DpnI | Not applicable. |
| Vapour pressure | : 5X SureSolution | 0.056 kPa (0.42 mm Hg) [EU A.4] |
| | SureVector AmpR Selectable Marker | Not available. |
| | SureVector pUC Origin | Not available. |
| | SureVector XP1 Linker | Not available. |
| | SureVector LacI Repressor | Not available. |
| | SureVector T7-HIS6 E. coli Promoter | Not available. |
| | SureVector T7 E. coli Promoter | Not available. |
| | SureVector GST E. coli Expression Tag (N-term) | Not available. |
| | SureVector MBP E. coli Expression Tag (N-term) | Not available. |
| | SureVector SBP E. coli Expression Tag (N-term) | Not available. |
| | SureVector LacZ Control (N-term) | Not available. |
| | SureVector Enzyme Mix | Not available. |
| | 10X SureVector Buffer | Not available. |
| | dNTP Mix | Not available. |
| | DpnI | Not available. |

SureVector E. coli N-terminal Tag kit, 5 rxn, Part Number G7518D

SECTION 9: Physical and chemical properties

| Ingredient name | Vapour Pressure at 20°C | | | Vapour pressure at 50°C | | |
|---|-------------------------|-----------|--------|-------------------------|----------|--------|
| | 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 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 LacI 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 T7 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 GST E. coli Expression Tag (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 MBP E. coli Expression Tag (N-term) | | | | | | |
| Water | 23.8 | 3.2 | | 92.258 | 12.3 | |
| 2-Amino-2-(hydroxymethyl)propane- | 0.000027 | 0.0000036 | | 0.000007501 | 0.000001 | |

SureVector E. coli N-terminal Tag kit, 5 rxn, Part Number G7518D

SECTION 9: Physical and chemical properties

| | | | | | |
|---|----------|-----------|-------------|----------|--|
| 1,3-diol hydrochloride | | | | | |
| SureVector SBP E. coli Expression Tag (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 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 | |
| Dpnl | | | | | |
| Water | 23.8 | 3.2 | 92.258 | 12.3 | |
| Glycerol | 0.000075 | 0.00001 | 0.0025 | 0.00033 | |

| | | | |
|-------------------------|---|--|---------------------------|
| Evaporation rate | : | 5X SureSolution | 0.026 (butyl acetate = 1) |
| | | SureVector AmpR | Not available. |
| | | Selectable Marker | |
| | | SureVector pUC Origin | Not available. |
| | | SureVector XP1 Linker | Not available. |
| | | SureVector LacI | Not available. |
| | | Repressor | |
| | | SureVector T7-HIS6 E. coli Promoter | Not available. |
| | | SureVector T7 E. coli Promoter | Not available. |
| | | SureVector GST E. coli Expression Tag (N-term) | Not available. |
| | | SureVector MBP E. coli Expression Tag (N-term) | Not available. |
| | | SureVector SBP E. coli Expression Tag (N-term) | Not available. |
| | | SureVector LacZ Control (N-term) | Not available. |
| | | SureVector Enzyme Mix | Not available. |
| | | 10X SureVector Buffer | Not available. |

SureVector E. coli N-terminal Tag kit, 5 rxn, Part Number G7518D

SECTION 9: Physical and chemical properties

| | | |
|-----------------------------|--|----------------|
| | dNTP Mix | Not available. |
| | DpnI | Not available. |
| Relative density | : 5X SureSolution | 1.1 |
| | SureVector AmpR | Not available. |
| | Selectable Marker | |
| | SureVector pUC Origin | Not available. |
| | SureVector XP1 Linker | Not available. |
| | SureVector LacI | Not available. |
| | Repressor | |
| | SureVector T7-HIS6 E. coli Promoter | Not available. |
| | SureVector T7 E. coli Promoter | Not available. |
| | SureVector GST E. coli Expression Tag (N-term) | Not available. |
| | SureVector MBP E. coli Expression Tag (N-term) | Not available. |
| | SureVector SBP E. coli Expression Tag (N-term) | Not available. |
| | SureVector LacZ Control (N-term) | Not available. |
| | SureVector Enzyme Mix | Not available. |
| | 10X SureVector Buffer | Not available. |
| | dNTP Mix | Not available. |
| | DpnI | Not available. |
| Vapour density | : 5X SureSolution | 2.7 [Air = 1] |
| | SureVector AmpR | Not available. |
| | Selectable Marker | |
| | SureVector pUC Origin | Not available. |
| | SureVector XP1 Linker | Not available. |
| | SureVector LacI | Not available. |
| | Repressor | |
| | SureVector T7-HIS6 E. coli Promoter | Not available. |
| | SureVector T7 E. coli Promoter | Not available. |
| | SureVector GST E. coli Expression Tag (N-term) | Not available. |
| | SureVector MBP E. coli Expression Tag (N-term) | Not available. |
| | SureVector SBP E. coli Expression Tag (N-term) | Not available. |
| | SureVector LacZ Control (N-term) | Not available. |
| | SureVector Enzyme Mix | Not available. |
| | 10X SureVector Buffer | Not available. |
| | dNTP Mix | Not available. |
| | DpnI | Not available. |
| Oxidising properties | : 5X SureSolution | Not available. |
| | SureVector AmpR | Not available. |
| | Selectable Marker | |
| | SureVector pUC Origin | Not available. |
| | SureVector XP1 Linker | Not available. |
| | SureVector LacI | Not available. |
| | Repressor | |
| | SureVector T7-HIS6 E. coli Promoter | Not available. |
| | SureVector T7 E. coli Promoter | Not available. |
| | SureVector GST E. coli Expression Tag (N-term) | Not available. |
| | SureVector MBP E. coli | Not available. |

SureVector E. coli N-terminal Tag kit, 5 rxn, Part Number G7518D

SECTION 9: Physical and chemical properties

| | |
|----------------------------------|----------------|
| Expression Tag (N-term) | |
| SureVector SBP E. coli | Not available. |
| Expression Tag (N-term) | |
| SureVector LacZ Control (N-term) | Not available. |
| SureVector Enzyme Mix | Not available. |
| 10X SureVector Buffer | Not available. |
| dNTP Mix | Not available. |
| Dpnl | Not available. |

Particle characteristics

Median particle size

| | |
|-------------------------------------|-----------------|
| : 5X SureSolution | Not applicable. |
| SureVector AmpR | Not applicable. |
| Selectable Marker | |
| SureVector pUC Origin | Not applicable. |
| SureVector XP1 Linker | Not applicable. |
| SureVector LacI | Not applicable. |
| Repressor | |
| SureVector T7-HIS6 E. coli Promoter | Not applicable. |
| SureVector T7 E. coli Promoter | Not applicable. |
| SureVector GST E. coli | Not applicable. |
| Expression Tag (N-term) | |
| SureVector MBP E. coli | Not applicable. |
| Expression Tag (N-term) | |
| SureVector SBP E. coli | Not applicable. |
| Expression Tag (N-term) | |
| SureVector LacZ Control (N-term) | Not applicable. |
| SureVector Enzyme Mix | Not applicable. |
| 10X SureVector Buffer | Not applicable. |
| dNTP Mix | Not applicable. |
| Dpnl | 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 product or its ingredients. |
| Selectable Marker | No specific test data related to reactivity available for this product or its ingredients. |
| SureVector pUC Origin | No specific test data related to reactivity available for this product or its ingredients. |
| SureVector XP1 Linker | No specific test data related to reactivity available for this product or its ingredients. |
| SureVector LacI | No specific test data related to reactivity available for this product or its ingredients. |
| Repressor | No specific test data related to reactivity available for this product or its ingredients. |
| SureVector T7-HIS6 E. coli Promoter | No specific test data related to reactivity available for this product or its ingredients. |
| SureVector T7 E. coli Promoter | No specific test data related to reactivity available for this product or its ingredients. |
| SureVector GST E. coli | No specific test data related to reactivity available for this product or its ingredients. |
| Expression Tag (N-term) | No specific test data related to reactivity available for this product or its ingredients. |
| SureVector MBP E. coli | No specific test data related to reactivity available for this product or its ingredients. |
| Expression Tag (N-term) | No specific test data related to reactivity available for this product or its ingredients. |
| SureVector SBP E. coli | No specific test data related to reactivity available for this product or its ingredients. |
| Expression Tag (N-term) | No specific test data related to reactivity available for this product or its ingredients. |
| SureVector LacZ Control (N-term) | No specific test data related to reactivity available for this product or its ingredients. |
| SureVector Enzyme Mix | No specific test data related to reactivity available for this product or its ingredients. |

SureVector E. coli N-terminal Tag kit, 5 rxn, Part Number G7518D

SECTION 10: Stability and reactivity

| | |
|-----------------------|---|
| 10X SureVector Buffer | product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. |
| dNTP Mix | No specific test data related to reactivity available for this product or its ingredients. |
| DpnI | No specific test data related to reactivity available for this product or its ingredients. |

10.2 Chemical stability

| | |
|--|------------------------|
| : 5X SureSolution | The product is stable. |
| SureVector AmpR | The product is stable. |
| Selectable Marker | |
| SureVector pUC Origin | The product is stable. |
| SureVector XP1 Linker | The product is stable. |
| SureVector LacI | The product is stable. |
| Repressor | |
| SureVector T7-HIS6 E. coli Promoter | The product is stable. |
| SureVector T7 E. coli Promoter | The product is stable. |
| SureVector GST E. coli Expression Tag (N-term) | The product is stable. |
| SureVector MBP E. coli Expression Tag (N-term) | The product is stable. |
| SureVector SBP E. coli Expression Tag (N-term) | The product is stable. |
| SureVector LacZ Control (N-term) | The product is stable. |
| SureVector Enzyme Mix | The product is stable. |
| 10X SureVector Buffer | The product is stable. |
| dNTP Mix | The product is stable. |
| DpnI | The product is stable. |

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 reactions will not occur. |
| Selectable Marker | Under normal conditions of storage and use, hazardous reactions will not occur. |
| SureVector pUC Origin | Under normal conditions of storage and use, hazardous reactions will not occur. |
| SureVector XP1 Linker | Under normal conditions of storage and use, hazardous reactions will not occur. |
| SureVector LacI | Under normal conditions of storage and use, hazardous reactions will not occur. |
| Repressor | Under normal conditions of storage and use, hazardous reactions will not occur. |
| SureVector T7-HIS6 E. coli Promoter | Under normal conditions of storage and use, hazardous reactions will not occur. |
| SureVector T7 E. coli Promoter | Under normal conditions of storage and use, hazardous reactions will not occur. |
| SureVector GST E. coli Expression Tag (N-term) | Under normal conditions of storage and use, hazardous reactions will not occur. |
| SureVector MBP E. coli Expression Tag (N-term) | Under normal conditions of storage and use, hazardous reactions will not occur. |
| SureVector SBP E. coli Expression Tag (N-term) | Under normal conditions of storage and use, hazardous reactions will not occur. |
| SureVector LacZ Control (N-term) | Under normal conditions of storage and use, hazardous reactions will not occur. |
| SureVector Enzyme Mix | Under normal conditions of storage and use, hazardous reactions will not occur. |
| 10X SureVector Buffer | Under normal conditions of storage and use, hazardous reactions will not occur. |
| dNTP Mix | Under normal conditions of storage and use, hazardous reactions will not occur. |
| DpnI | Under normal conditions of storage and use, hazardous reactions will not occur. |

SureVector *E. coli* N-terminal Tag kit, 5 rxn, Part Number G7518D

SECTION 10: Stability and reactivity

| | | |
|--|---|--|
| 10.4 Conditions to avoid | <ul style="list-style-type: none"> : 5X SureSolution SureVector AmpR Selectable Marker SureVector pUC Origin SureVector XP1 Linker SureVector LacI Repressor SureVector T7-HIS6 <i>E. coli</i> Promoter SureVector T7 <i>E. coli</i> Promoter SureVector GST <i>E. coli</i> Expression Tag (N-term) SureVector MBP <i>E. coli</i> Expression Tag (N-term) SureVector SBP <i>E. coli</i> Expression Tag (N-term) SureVector LacZ Control (N-term) SureVector Enzyme Mix 10X SureVector Buffer dNTP Mix DpnI | <ul style="list-style-type: none"> No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. |
| 10.5 Incompatible materials | <ul style="list-style-type: none"> : 5X SureSolution SureVector AmpR Selectable Marker SureVector pUC Origin SureVector XP1 Linker SureVector LacI Repressor SureVector T7-HIS6 <i>E. coli</i> Promoter SureVector T7 <i>E. coli</i> Promoter SureVector GST <i>E. coli</i> Expression Tag (N-term) SureVector MBP <i>E. coli</i> Expression Tag (N-term) SureVector SBP <i>E. coli</i> Expression Tag (N-term) SureVector LacZ Control (N-term) SureVector Enzyme Mix 10X SureVector Buffer dNTP Mix DpnI | <ul style="list-style-type: none"> 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. 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. 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 | <ul style="list-style-type: none"> : 5X SureSolution SureVector AmpR Selectable Marker SureVector pUC Origin SureVector XP1 Linker SureVector LacI Repressor SureVector T7-HIS6 <i>E. coli</i> Promoter SureVector T7 <i>E. coli</i> | <ul style="list-style-type: none"> 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. |

SureVector E. coli N-terminal Tag kit, 5 rxn, Part Number G7518D

SECTION 10: Stability and reactivity

| | |
|----------------------------------|--|
| Promoter | decomposition products should not be produced. |
| SureVector GST E. coli | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| Expression Tag (N-term) | decomposition products should not be produced. |
| SureVector MBP E. coli | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| Expression Tag (N-term) | decomposition products should not be produced. |
| SureVector SBP E. coli | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| Expression Tag (N-term) | decomposition products should not be produced. |
| SureVector LacZ Control (N-term) | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| SureVector Enzyme Mix | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| 10X SureVector Buffer | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| dNTP Mix | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| Dpnl | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|---|--------------------------|------------|----------------------------|----------|
| 5X SureSolution Dimethyl sulfoxide | LD50 Dermal LD50 Oral | Rat Rat | 40000 mg/kg 14500 mg/kg | - - |
| SureVector Enzyme Mix Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy- | LD50 Oral | Rat | 2800 mg/kg | - |
| 10X SureVector Buffer Ammonium sulphate Polyoxyethylene octyl phenyl ether | LD50 Oral LD50 Oral | Rat Rat | 2840 mg/kg 1800 mg/kg | - - |
| 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]-.omega.-hydroxy- | 2800 | N/A | N/A | N/A | N/A |
| 10X SureVector Buffer 10X SureVector Buffer Ammonium sulphate Polyoxyethylene octyl phenyl ether | 180000 2840 1800 | N/A N/A N/A | N/A N/A N/A | N/A N/A N/A | N/A N/A N/A |
| Dpnl Sodium chloride | 3000 | N/A | N/A | N/A | N/A |

Irritation/Corrosion

SureVector E. coli N-terminal Tag kit, 5 rxn, Part Number G7518D

SECTION 11: Toxicological information

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|---|--------------------------|---------|-------|-----------------|-------------|
| 5X SureSolution Dimethyl sulfoxide | Eyes - Mild irritant | Rabbit | - | 24 hours 500 mg | - |
| | Eyes - Mild irritant | Rabbit | - | 100 mg | - |
| | Skin - Mild irritant | Rabbit | - | 24 hours 500 mg | - |
| | Skin - Mild irritant | Rabbit | - | 100 mg | - |
| SureVector Enzyme Mix Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy- | Eyes - Severe irritant | Rabbit | - | 1 % | - |
| 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 | Routes of entry anticipated: Oral, Dermal, Inhalation. |
| SureVector AmpR | Not available. |
| Selectable Marker | |
| SureVector pUC Origin | Not available. |
| SureVector XP1 Linker | Not available. |
| SureVector Lacl | Not available. |
| Repressor | |
| SureVector T7-HIS6 E. coli Promoter | Not available. |
| SureVector T7 E. coli Promoter | Not available. |
| SureVector GST E. coli Expression Tag (N-term) | Not available. |
| SureVector MBP E. coli | Not available. |

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SECTION 11: Toxicological information

| | |
|----------------------------------|--|
| Expression Tag (N-term) | |
| SureVector SBP E. coli | Not available. |
| Expression Tag (N-term) | |
| SureVector LacZ Control (N-term) | Not available. |
| SureVector Enzyme Mix | Routes of entry anticipated: Oral, Dermal, Inhalation. |
| 10X SureVector Buffer | Routes of entry anticipated: Oral, Dermal, Inhalation. |
| dNTP Mix | Not available. |
| DpnI | Routes of entry anticipated: Oral, Dermal, Inhalation. |

Potential acute health effects

Inhalation

| | |
|-------------------------------------|---|
| : 5X SureSolution | No known significant effects or critical hazards. |
| SureVector AmpR | No known significant effects or critical hazards. |
| Selectable Marker | |
| SureVector pUC Origin | No known significant effects or critical hazards. |
| SureVector XP1 Linker | No known significant effects or critical hazards. |
| SureVector LacI | No known significant effects or critical hazards. |
| Repressor | |
| SureVector T7-HIS6 E. coli Promoter | No known significant effects or critical hazards. |
| SureVector T7 E. coli Promoter | No known significant effects or critical hazards. |
| SureVector GST E. coli | No known significant effects or critical hazards. |
| Expression Tag (N-term) | |
| SureVector MBP E. coli | No known significant effects or critical hazards. |
| Expression Tag (N-term) | |
| SureVector SBP E. coli | No known significant effects or critical hazards. |
| Expression Tag (N-term) | |
| SureVector LacZ Control (N-term) | No known significant effects or critical hazards. |
| SureVector Enzyme Mix | No known significant effects or critical hazards. |
| 10X SureVector Buffer | No known significant effects or critical hazards. |
| dNTP Mix | No known significant effects or critical hazards. |
| DpnI | No known significant effects or critical hazards. |

Ingestion

| | |
|-------------------------------------|---|
| : 5X SureSolution | No known significant effects or critical hazards. |
| SureVector AmpR | No known significant effects or critical hazards. |
| Selectable Marker | |
| SureVector pUC Origin | No known significant effects or critical hazards. |
| SureVector XP1 Linker | No known significant effects or critical hazards. |
| SureVector LacI | No known significant effects or critical hazards. |
| Repressor | |
| SureVector T7-HIS6 E. coli Promoter | No known significant effects or critical hazards. |
| SureVector T7 E. coli Promoter | No known significant effects or critical hazards. |
| SureVector GST E. coli | No known significant effects or critical hazards. |
| Expression Tag (N-term) | |
| SureVector MBP E. coli | No known significant effects or critical hazards. |
| Expression Tag (N-term) | |
| SureVector SBP E. coli | No known significant effects or critical hazards. |
| Expression Tag (N-term) | |
| SureVector LacZ Control (N-term) | No known significant effects or critical hazards. |
| SureVector Enzyme Mix | No known significant effects or critical hazards. |
| 10X SureVector Buffer | No known significant effects or critical hazards. |
| dNTP Mix | No known significant effects or critical hazards. |
| DpnI | No known significant effects or critical hazards. |

SureVector E. coli N-terminal Tag kit, 5 rxn, Part Number G7518D

SECTION 11: Toxicological information

| | | | |
|--|--|---|---|
| Skin contact | : 5X SureSolution | No known significant effects or critical hazards. | |
| | SureVector AmpR | No known significant effects or critical hazards. | |
| | Selectable Marker | | |
| | SureVector pUC Origin | No known significant effects or critical hazards. | |
| | SureVector XP1 Linker | No known significant effects or critical hazards. | |
| | SureVector LacI | No known significant effects or critical hazards. | |
| | Repressor | | |
| | SureVector T7-HIS6 E. coli Promoter | No known significant effects or critical hazards. | |
| | SureVector T7 E. coli Promoter | No known significant effects or critical hazards. | |
| | SureVector GST E. coli Expression Tag (N-term) | No known significant effects or critical hazards. | |
| | SureVector MBP E. coli Expression Tag (N-term) | No known significant effects or critical hazards. | |
| | SureVector SBP E. coli Expression Tag (N-term) | No known significant effects or critical hazards. | |
| | SureVector LacZ Control (N-term) | No known significant effects or critical hazards. | |
| | SureVector Enzyme Mix | No known significant effects or critical hazards. | |
| | 10X SureVector Buffer | No known significant effects or critical hazards. | |
| | dNTP Mix | No known significant effects or critical hazards. | |
| | DpnI | No known significant effects or critical hazards. | |
| | Eye contact | : 5X SureSolution | No known significant effects or critical hazards. |
| | | SureVector AmpR | No known significant effects or critical hazards. |
| | | Selectable Marker | |
| SureVector pUC Origin | | No known significant effects or critical hazards. | |
| SureVector XP1 Linker | | No known significant effects or critical hazards. | |
| SureVector LacI | | No known significant effects or critical hazards. | |
| Repressor | | | |
| SureVector T7-HIS6 E. coli Promoter | | No known significant effects or critical hazards. | |
| SureVector T7 E. coli Promoter | | No known significant effects or critical hazards. | |
| SureVector GST E. coli Expression Tag (N-term) | | No known significant effects or critical hazards. | |
| SureVector MBP E. coli Expression Tag (N-term) | | No known significant effects or critical hazards. | |
| SureVector SBP E. coli Expression Tag (N-term) | | No known significant effects or critical hazards. | |
| SureVector LacZ Control (N-term) | | No known significant effects or critical hazards. | |
| SureVector Enzyme Mix | | No known significant effects or critical hazards. | |
| 10X SureVector Buffer | | Causes serious eye irritation. | |
| dNTP Mix | | No known significant effects or critical hazards. | |
| DpnI | | No known significant effects or critical hazards. | |

Symptoms related to the physical, chemical and toxicological characteristics

| | | |
|-------------------|--|-------------------|
| Inhalation | : 5X SureSolution | No specific data. |
| | SureVector AmpR | No specific data. |
| | Selectable Marker | |
| | SureVector pUC Origin | No specific data. |
| | SureVector XP1 Linker | No specific data. |
| | SureVector LacI | No specific data. |
| | Repressor | |
| | SureVector T7-HIS6 E. coli Promoter | No specific data. |
| | SureVector T7 E. coli Promoter | No specific data. |
| | SureVector GST E. coli Expression Tag (N-term) | No specific data. |
| | SureVector MBP E. coli Expression Tag (N-term) | No specific data. |

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SECTION 11: Toxicological information

| | | |
|---------------------|--|-------------------|
| | SureVector SBP E. coli Expression Tag (N-term) | No specific data. |
| | SureVector LacZ Control (N-term) | No specific data. |
| | SureVector Enzyme Mix | No specific data. |
| | 10X SureVector Buffer | No specific data. |
| | dNTP Mix | No specific data. |
| | DpnI | No specific data. |
| Ingestion | : 5X SureSolution | No specific data. |
| | SureVector AmpR | No specific data. |
| | Selectable Marker | |
| | SureVector pUC Origin | No specific data. |
| | SureVector XP1 Linker | No specific data. |
| | SureVector LacI | No specific data. |
| | Repressor | |
| | SureVector T7-HIS6 E. coli Promoter | No specific data. |
| | SureVector T7 E. coli Promoter | No specific data. |
| | SureVector GST E. coli Expression Tag (N-term) | No specific data. |
| | SureVector MBP E. coli Expression Tag (N-term) | No specific data. |
| | SureVector SBP E. coli Expression Tag (N-term) | No specific data. |
| | SureVector LacZ Control (N-term) | No specific data. |
| | SureVector Enzyme Mix | No specific data. |
| | 10X SureVector Buffer | No specific data. |
| | dNTP Mix | No specific data. |
| | DpnI | No specific data. |
| Skin contact | : 5X SureSolution | No specific data. |
| | SureVector AmpR | No specific data. |
| | Selectable Marker | |
| | SureVector pUC Origin | No specific data. |
| | SureVector XP1 Linker | No specific data. |
| | SureVector LacI | No specific data. |
| | Repressor | |
| | SureVector T7-HIS6 E. coli Promoter | No specific data. |
| | SureVector T7 E. coli Promoter | No specific data. |
| | SureVector GST E. coli Expression Tag (N-term) | No specific data. |
| | SureVector MBP E. coli Expression Tag (N-term) | No specific data. |
| | SureVector SBP E. coli Expression Tag (N-term) | No specific data. |
| | SureVector LacZ Control (N-term) | No specific data. |
| | SureVector Enzyme Mix | No specific data. |
| | 10X SureVector Buffer | No specific data. |
| | dNTP Mix | No specific data. |
| | DpnI | No specific data. |
| Eye contact | : 5X SureSolution | No specific data. |
| | SureVector AmpR | No specific data. |
| | Selectable Marker | |
| | SureVector pUC Origin | No specific data. |
| | SureVector XP1 Linker | No specific data. |
| | SureVector LacI | No specific data. |
| | Repressor | |
| | SureVector T7-HIS6 E. | No specific data. |

SureVector E. coli N-terminal Tag kit, 5 rxn, Part Number G7518D

SECTION 11: Toxicological information

| | |
|--|--|
| coli Promoter | |
| SureVector T7 E. coli Promoter | No specific data. |
| SureVector GST E. coli Expression Tag (N-term) | No specific data. |
| SureVector MBP E. coli Expression Tag (N-term) | No specific data. |
| SureVector SBP E. coli Expression Tag (N-term) | No specific data. |
| SureVector LacZ Control (N-term) | No specific data. |
| SureVector Enzyme Mix | No specific data. |
| 10X SureVector Buffer | Adverse symptoms may include the following: pain or irritation watering redness |
| dNTP Mix | No specific data. |
| DpnI | No specific data. |

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

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

| | | |
|----------------|--|---|
| General | : 5X SureSolution | No known significant effects or critical hazards. |
| | SureVector AmpR Selectable Marker | No known significant effects or critical hazards. |
| | SureVector pUC Origin | No known significant effects or critical hazards. |
| | SureVector XP1 Linker | No known significant effects or critical hazards. |
| | SureVector LacI Repressor | No known significant effects or critical hazards. |
| | SureVector T7-HIS6 E. coli Promoter | No known significant effects or critical hazards. |
| | SureVector T7 E. coli Promoter | No known significant effects or critical hazards. |
| | SureVector GST E. coli Expression Tag (N-term) | No known significant effects or critical hazards. |
| | SureVector MBP E. coli Expression Tag (N-term) | No known significant effects or critical hazards. |
| | SureVector SBP E. coli Expression Tag (N-term) | No known significant effects or critical hazards. |
| | SureVector LacZ Control (N-term) | No known significant effects or critical hazards. |
| | SureVector Enzyme Mix | No known significant effects or critical hazards. |
| | 10X SureVector Buffer | No known significant effects or critical hazards. |
| | dNTP Mix | No known significant effects or critical hazards. |
| | DpnI | No known significant effects or critical hazards. |

SureVector E. coli N-terminal Tag kit, 5 rxn, Part Number G7518D

SECTION 11: Toxicological information

| | | | |
|--|--|---|---|
| Carcinogenicity | : 5X SureSolution | No known significant effects or critical hazards. | |
| | SureVector AmpR | No known significant effects or critical hazards. | |
| | Selectable Marker | | |
| | SureVector pUC Origin | No known significant effects or critical hazards. | |
| | SureVector XP1 Linker | No known significant effects or critical hazards. | |
| | SureVector Lacl | No known significant effects or critical hazards. | |
| | Repressor | | |
| | SureVector T7-HIS6 E. coli Promoter | No known significant effects or critical hazards. | |
| | SureVector T7 E. coli Promoter | No known significant effects or critical hazards. | |
| | SureVector GST E. coli Expression Tag (N-term) | No known significant effects or critical hazards. | |
| | SureVector MBP E. coli Expression Tag (N-term) | No known significant effects or critical hazards. | |
| | SureVector SBP E. coli Expression Tag (N-term) | No known significant effects or critical hazards. | |
| | SureVector LacZ Control (N-term) | No known significant effects or critical hazards. | |
| | SureVector Enzyme Mix | No known significant effects or critical hazards. | |
| | 10X SureVector Buffer | No known significant effects or critical hazards. | |
| | dNTP Mix | No known significant effects or critical hazards. | |
| | DpnI | No known significant effects or critical hazards. | |
| | Mutagenicity | : 5X SureSolution | No known significant effects or critical hazards. |
| | | SureVector AmpR | No known significant effects or critical hazards. |
| | | Selectable Marker | |
| SureVector pUC Origin | | No known significant effects or critical hazards. | |
| SureVector XP1 Linker | | No known significant effects or critical hazards. | |
| SureVector Lacl | | No known significant effects or critical hazards. | |
| Repressor | | | |
| SureVector T7-HIS6 E. coli Promoter | | No known significant effects or critical hazards. | |
| SureVector T7 E. coli Promoter | | No known significant effects or critical hazards. | |
| SureVector GST E. coli Expression Tag (N-term) | | No known significant effects or critical hazards. | |
| SureVector MBP E. coli Expression Tag (N-term) | | No known significant effects or critical hazards. | |
| SureVector SBP E. coli Expression Tag (N-term) | | No known significant effects or critical hazards. | |
| SureVector LacZ Control (N-term) | | No known significant effects or critical hazards. | |
| SureVector Enzyme Mix | | No known significant effects or critical hazards. | |
| 10X SureVector Buffer | | No known significant effects or critical hazards. | |
| dNTP Mix | | No known significant effects or critical hazards. | |
| DpnI | | No known significant effects or critical hazards. | |
| Reproductive toxicity | | : 5X SureSolution | No known significant effects or critical hazards. |
| | | SureVector AmpR | No known significant effects or critical hazards. |
| | | Selectable Marker | |
| | SureVector pUC Origin | No known significant effects or critical hazards. | |
| | SureVector XP1 Linker | No known significant effects or critical hazards. | |
| | SureVector Lacl | No known significant effects or critical hazards. | |
| | Repressor | | |
| | SureVector T7-HIS6 E. coli Promoter | No known significant effects or critical hazards. | |
| | SureVector T7 E. coli Promoter | No known significant effects or critical hazards. | |
| | SureVector GST E. coli Expression Tag (N-term) | No known significant effects or critical hazards. | |
| | SureVector MBP E. coli Expression Tag (N-term) | No known significant effects or critical hazards. | |
| | SureVector SBP E. coli | No known significant effects or critical hazards. | |

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SECTION 11: Toxicological information

| | |
|----------------------------------|---|
| Expression Tag (N-term) | |
| SureVector LacZ Control (N-term) | No known significant effects or critical hazards. |
| SureVector Enzyme Mix | No known significant effects or critical hazards. |
| 10X SureVector Buffer | No known significant effects or critical hazards. |
| dNTP Mix | No known significant effects or critical hazards. |
| 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 - Neonate | 48 hours |
| | Acute LC50 34000000 µg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| | Chronic NOEC 100 µl/L Marine water | Algae - Ulva lactuca | 72 hours |
| | Chronic NOEC 100 µl/L Fresh water | Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling) | 21 days |
| SureVector Enzyme Mix Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy- | Acute EC50 210 µg/l Fresh water | Algae - Selenastrum sp. | 96 hours |
| | Acute LC50 10800 µg/l Marine water | Crustaceans - Pandalus montagui - Adult | 48 hours |
| | Acute LC50 8600 µg/l Fresh water | Daphnia - Daphnia magna - Neonate | 48 hours |
| | Acute LC50 7200 µg/l Fresh water | Fish - Oncorhynchus mykiss | 96 hours |
| 10X SureVector Buffer Ammonium sulphate | Chronic NOEC 7.5 mg/l Marine water | Algae - Phaeodactylum tricornutum - Exponential growth phase | 96 hours |
| | Acute LC50 5.85 mg/l Fresh water | Crustaceans - Ceriodaphnia rigaudi - Neonate | 48 hours |
| | Acute LC50 11.2 mg/l Fresh water | Daphnia - Daphnia magna - Neonate | 48 hours |
| Polyoxyethylene octyl phenyl ether | Acute LC50 4500 µg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| | Acute LC50 5.85 mg/l Fresh water | Crustaceans - Ceriodaphnia rigaudi - Neonate | 48 hours |
| | Acute LC50 11.2 mg/l Fresh water | Daphnia - Daphnia magna - Neonate | 48 hours |
| 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 subglobosa | 48 hours |
| | 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 - Juvenile (Fledgling, Hatchling, Weanling) | 3 weeks |
| | Chronic NOEC 6 g/L Fresh water | Aquatic plants - Lemna minor | 96 hours |
| | Chronic NOEC 0.314 g/L Fresh water | Daphnia - Daphnia pulex | 21 days |
| Chronic NOEC 100 mg/l Fresh water | Fish - Gambusia holbrooki - Adult | 8 weeks | |

12.2 Persistence and degradability

SureVector E. coli N-terminal Tag kit, 5 rxn, Part Number G7518D

SECTION 12: Ecological information

| 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 | - | - | Readily |
| Polyoxyethylene octyl phenyl ether | - | - | Readily |

12.3 Bioaccumulative potential

| Product/ingredient name | LogP _{ow} | BCF | Potential |
|---|--------------------|-------|-----------|
| 5X SureSolution Dimethyl sulfoxide | -1.35 | 3.16 | low |
| SureVector Enzyme Mix Poly(oxy-1,2-ethanediyl), . alpha.-[(1,1,3,3-tetramethylbutyl) phenyl]-.omega.-hydroxy- | 3.77 | 78.67 | low |
| 10X SureVector Buffer Ammonium sulphate | -5.1 | - | low |
| Polyoxyethylene octyl phenyl ether | 4.86 | - | high |

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

| Product/ingredient name | PBT | P | B | T | 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.

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.

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SECTION 13: Disposal considerations

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

| 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

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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 | 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 Marker | Not applicable. |
| | SureVector pUC Origin | Not applicable. |
| | SureVector XP1 Linker | Not applicable. |
| | SureVector LacI Repressor | Not applicable. |
| | SureVector T7-HIS6 E. coli Promoter | Not applicable. |
| | SureVector T7 E. coli Promoter | Not applicable. |
| | SureVector GST E. coli Expression Tag (N-term) | Not applicable. |
| | SureVector MBP E. coli Expression Tag (N-term) | Not applicable. |
| | SureVector SBP E. coli Expression Tag (N-term) | Not applicable. |
| | SureVector LacZ Control (N-term) | Not applicable. |
| | SureVector Enzyme Mix | Not applicable. |
| | 10X SureVector Buffer | Not applicable. |
| | dNTP Mix | Not applicable. |
| | DpnI | Not applicable. |

Other EU regulations

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

Ozone depleting substances (1005/2009/EU)

Not listed.

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

Not listed.

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.

SureVector E. coli N-terminal Tag kit, 5 rxn, Part Number G7518D

SECTION 15: Regulatory information

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 | : 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]

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

Full text of abbreviated H statements

SureVector E. coli N-terminal Tag kit, 5 rxn, Part Number G7518D

SECTION 16: Other information

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

[Full text of classifications \[CLP/GHS\]](#)

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

Date of issue/ Date of revision : 22/03/2022

Date of previous issue : No previous validation

Version : 1

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