

SAFETY DATA SHEET



SureSelect XT Fast Library Prep Kit, ILM 96 Reactions, Part Number 5500-0137

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

1.1 Product identifier

Product name	: SureSelect XT Fast Library Prep Kit, ILM 96 Reactions, Part Number 5500-0137
Part No. (Kit)	: 5500-0137
Part No.	: 10X End Repair Buffer 5190-3609 5X T4 DNA Ligase Buffer 5190-3610 10x Klenow Polymerase Buffer 5190-3611 T4 DNA Ligase 5190-3612 Exo(-) Klenow 5190-3613 T4 DNA Polymerase 5190-3614 Klenow DNA Polymerase 5190-3615 T4 Polynucleotide Kinase 5190-3616 dATP 5190-3617 SureSelect PCR Primer Mix 5190-8832 100 mM dNTP Mix (25 mM each dNTP) 200415-51 5X Herculase II Reaction Buffer 600675-52 Herculase II Fusion DNA Polymerase 5190-7751 SureSelect Pre-capture Indexed Adaptor Set A01-H12 5190-7945

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

Identified uses

Analytical reagent.	
10X End Repair Buffer	1.428 ml (96 reactions)
5X T4 DNA Ligase Buffer	1.428 ml (96 reactions)
10x Klenow Polymerase Buffer	0.816 ml (96 reactions)
T4 DNA Ligase	0.214 ml (96 reactions)
Exo(-) Klenow	0.49 ml (96 reactions)
T4 DNA Polymerase	0.143 ml (96 reactions)
Klenow DNA Polymerase	0.286 ml (96 reactions)
T4 Polynucleotide Kinase	0.315 ml (96 reactions)
dATP	0.164 ml (96 reactions)
SureSelect PCR Primer Mix	0.47 ml (96 reactions)
100 mM dNTP Mix (25 mM each dNTP)	0.4 ml
5X Herculase II Reaction Buffer	2 x 1.5 ml
Herculase II Fusion DNA Polymerase	0.31 ml (192 reactions)
SureSelect Pre-capture Indexed Adaptor Set A01-H12	96 x 0.015 ml

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

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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	:	10X End Repair Buffer	Mixture
		5X T4 DNA Ligase Buffer	Mixture
		10x Klenow Polymerase Buffer	Mixture
		T4 DNA Ligase	Mixture
		Exo(-) Klenow	Mixture
		T4 DNA Polymerase	Mixture
		Klenow DNA Polymerase	Mixture
		T4 Polynucleotide Kinase	Mixture
		dATP	Mixture
		SureSelect PCR Primer Mix	Mixture
		100 mM dNTP Mix (25 mM each dNTP)	Mixture
		5X Herculase II Reaction Buffer	Mixture
		Herculase II Fusion DNA Polymerase	Mixture
		SureSelect Pre-capture Indexed Adaptor Set A01-H12	Mixture

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

5X T4 DNA Ligase Buffer

H319

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

Ingredients of unknown toxicity	:	10X End Repair Buffer	Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10% Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 10 - 30% Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 1 - 10%
		5X T4 DNA Ligase Buffer	Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10% Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 10 - 30% Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 1 - 10%
		10x Klenow Polymerase Buffer	Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10% Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 1 - 10% Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 1 - 10%
		T4 DNA Ligase	Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 30 - 60%
		Exo(-) Klenow	Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 30 - 60%
		T4 DNA Polymerase	Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10% Percentage of the mixture consisting of ingredient(s) of

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		unknown inhalation toxicity: 30 - 60%
		Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 1 - 10%
	Klenow DNA Polymerase	Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10%
		Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 30 - 60%
		Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 1 - 10%
	T4 Polynucleotide Kinase	Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10%
		Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 30 - 60%
		Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 1 - 10%
	100 mM dNTP Mix (25 mM each dNTP)	Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10%
		Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 1 - 10%
		Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 1 - 10%
	5X Herculase II Reaction Buffer	Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10%
		Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 1 - 10%
	Herculase II Fusion DNA Polymerase	Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 30 - 60%
Ingredients of unknown ecotoxicity	: 10X End Repair Buffer	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 7.9%
	5X T4 DNA Ligase Buffer	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 3.9%
	10x Klenow Polymerase Buffer	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 7.9%
	T4 DNA Polymerase	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 2%
	Klenow DNA Polymerase	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 2%
	T4 Polynucleotide Kinase	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 2%
	100 mM dNTP Mix (25 mM each dNTP)	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 5.7%

See Section 16 for the full text of the H statements declared above.

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

2.2 Label elements

Hazard pictograms : 5X T4 DNA Ligase Buffer



Signal word : 10X End Repair Buffer No signal word.
 5X T4 DNA Ligase Buffer Warning
 10x Klenow Polymerase Buffer No signal word.
 T4 DNA Ligase No signal word.
 Exo(-) Klenow No signal word.
 T4 DNA Polymerase No signal word.
 Klenow DNA Polymerase No signal word.
 T4 Polynucleotide Kinase No signal word.
 dATP No signal word.

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	SureSelect PCR Primer Mix	No signal word.
	100 mM dNTP Mix (25 mM each dNTP)	No signal word.
	5X Herculase II Reaction Buffer	No signal word.
	Herculase II Fusion DNA Polymerase	No signal word.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	No signal word.
Hazard statements	: 10X End Repair Buffer	No known significant effects or critical hazards.
	5X T4 DNA Ligase Buffer	H319 - Causes serious eye irritation.
	10x Klenow Polymerase Buffer	No known significant effects or critical hazards.
	T4 DNA Ligase	No known significant effects or critical hazards.
	Exo(-) Klenow	No known significant effects or critical hazards.
	T4 DNA Polymerase	No known significant effects or critical hazards.
	Klenow DNA Polymerase	No known significant effects or critical hazards.
	T4 Polynucleotide Kinase	No known significant effects or critical hazards.
	dATP	No known significant effects or critical hazards.
	SureSelect PCR Primer Mix	No known significant effects or critical hazards.
	100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
	5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
	Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	No known significant effects or critical hazards.
Precautionary statements		
Prevention	: 10X End Repair Buffer	Not applicable.
	5X T4 DNA Ligase Buffer	P280 - Wear eye or face protection. P264 - Wash hands thoroughly after handling.
	10x Klenow Polymerase Buffer	Not applicable.
	T4 DNA Ligase	Not applicable.
	Exo(-) Klenow	Not applicable.
	T4 DNA Polymerase	Not applicable.
	Klenow DNA Polymerase	Not applicable.
	T4 Polynucleotide Kinase	Not applicable.
	dATP	Not applicable.
	SureSelect PCR Primer Mix	Not applicable.
	100 mM dNTP Mix (25 mM each dNTP)	Not applicable.
	5X Herculase II Reaction Buffer	Not applicable.
	Herculase II Fusion DNA Polymerase	Not applicable.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	Not applicable.

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Response	: 10X End Repair Buffer 5X T4 DNA Ligase Buffer 10x Klenow Polymerase Buffer T4 DNA Ligase Exo(-) Klenow T4 DNA Polymerase Klenow DNA Polymerase T4 Polynucleotide Kinase dATP SureSelect PCR Primer Mix 100 mM dNTP Mix (25 mM each dNTP) 5X Herculase II Reaction Buffer Herculase II Fusion DNA Polymerase SureSelect Pre-capture Indexed Adaptor Set A01-H12	Not applicable. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
Storage	: 10X End Repair Buffer 5X T4 DNA Ligase Buffer 10x Klenow Polymerase Buffer T4 DNA Ligase Exo(-) Klenow T4 DNA Polymerase Klenow DNA Polymerase T4 Polynucleotide Kinase dATP SureSelect PCR Primer Mix 100 mM dNTP Mix (25 mM each dNTP) 5X Herculase II Reaction Buffer Herculase II Fusion DNA Polymerase SureSelect Pre-capture Indexed Adaptor Set A01-H12	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
Disposal	: 10X End Repair Buffer 5X T4 DNA Ligase Buffer 10x Klenow Polymerase Buffer T4 DNA Ligase Exo(-) Klenow T4 DNA Polymerase Klenow DNA Polymerase T4 Polynucleotide Kinase dATP SureSelect PCR Primer Mix 100 mM dNTP Mix (25 mM each dNTP) 5X Herculase II Reaction Buffer Herculase II Fusion DNA	Not applicable. Not applicable. Not applicable. 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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	Polymerase	
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	Not applicable.
Hazardous ingredients	: 10X End Repair Buffer	Not applicable.
	5X T4 DNA Ligase Buffer	Not applicable.
	10x Klenow Polymerase Buffer	Not applicable.
	5X Herculase II Reaction Buffer	Not applicable.
Supplemental label elements	: 10X End Repair Buffer	Safety data sheet available on request.
	5X T4 DNA Ligase Buffer	Not applicable.
	10x Klenow Polymerase Buffer	Safety data sheet available on request.
	T4 DNA Ligase	Not applicable.
	Exo(-) Klenow	Not applicable.
	T4 DNA Polymerase	Not applicable.
	Klenow DNA Polymerase	Not applicable.
	T4 Polynucleotide Kinase	Not applicable.
	dATP	Not applicable.
	SureSelect PCR Primer Mix	Not applicable.
	100 mM dNTP Mix (25 mM each dNTP)	Not applicable.
	5X Herculase II Reaction Buffer	Safety data sheet available on request.
	Herculase II Fusion DNA Polymerase	Not applicable.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: 10X End Repair Buffer	Not applicable.
	5X T4 DNA Ligase Buffer	Not applicable.
	10x Klenow Polymerase Buffer	Not applicable.
	T4 DNA Ligase	Not applicable.
	Exo(-) Klenow	Not applicable.
	T4 DNA Polymerase	Not applicable.
	Klenow DNA Polymerase	Not applicable.
	T4 Polynucleotide Kinase	Not applicable.
	dATP	Not applicable.
	SureSelect PCR Primer Mix	Not applicable.
	100 mM dNTP Mix (25 mM each dNTP)	Not applicable.
	5X Herculase II Reaction Buffer	Not applicable.
	Herculase II Fusion DNA Polymerase	Not applicable.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	Not applicable.
Special packaging requirements		
Tactile warning of danger	: 10X End Repair Buffer	Not applicable.
	5X T4 DNA Ligase Buffer	Not applicable.
	10x Klenow Polymerase Buffer	Not applicable.
	T4 DNA Ligase	Not applicable.
	Exo(-) Klenow	Not applicable.
	T4 DNA Polymerase	Not applicable.

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Klenow DNA Polymerase	Not applicable.
T4 Polynucleotide Kinase	Not applicable.
dATP	Not applicable.
SureSelect PCR Primer Mix	Not applicable.
100 mM dNTP Mix (25 mM each dNTP)	Not applicable.
5X Herculase II Reaction Buffer	Not applicable.
Herculase II Fusion DNA Polymerase	Not applicable.
SureSelect Pre-capture Indexed Adaptor Set A01-H12	Not applicable.

2.3 Other hazards

Other hazards which do not result in classification	:	10X End Repair Buffer	None known.
		5X T4 DNA Ligase Buffer	None known.
		10x Klenow Polymerase Buffer	None known.
		T4 DNA Ligase	None known.
		Exo(-) Klenow	None known.
		T4 DNA Polymerase	None known.
		Klenow DNA Polymerase	None known.
		T4 Polynucleotide Kinase	None known.
		dATP	None known.
		SureSelect PCR Primer Mix	None known.
		100 mM dNTP Mix (25 mM each dNTP)	None known.
		5X Herculase II Reaction Buffer	None known.
		Herculase II Fusion DNA Polymerase	None known.
		SureSelect Pre-capture Indexed Adaptor Set A01-H12	None known.

SECTION 3: Composition/information on ingredients

3.1 Substances	:	10X End Repair Buffer	Mixture
		5X T4 DNA Ligase Buffer	Mixture
		10x Klenow Polymerase Buffer	Mixture
		T4 DNA Ligase	Mixture
		Exo(-) Klenow	Mixture
		T4 DNA Polymerase	Mixture
		Klenow DNA Polymerase	Mixture
		T4 Polynucleotide Kinase	Mixture
		dATP	Mixture
		SureSelect PCR Primer Mix	Mixture
		100 mM dNTP Mix (25 mM each dNTP)	Mixture
		5X Herculase II Reaction Buffer	Mixture
		Herculase II Fusion DNA Polymerase	Mixture
		SureSelect Pre-capture Indexed Adaptor Set A01-H12	Mixture

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SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
10X End Repair Buffer 2-Amino-2-(hydroxymethyl) propane-1,3-diol hydrochloride	EC: 214-684-5 CAS: 1185-53-1	≤8.3	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	[1]
(R*,R*)-1,4-Dimercaptobutane-2, 3-diol	EC: 222-468-7 CAS: 3483-12-3	≤1.6	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 3, H412	[1]
5X T4 DNA Ligase Buffer 2-Amino-2-(hydroxymethyl) propane-1,3-diol hydrochloride	EC: 214-684-5 CAS: 1185-53-1	≤5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	[1]
10x Klenow Polymerase Buffer 2-Amino-2-(hydroxymethyl) propane-1,3-diol hydrochloride	EC: 214-684-5 CAS: 1185-53-1	<10	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	[1]
T4 DNA Ligase Glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	[2]
Exo(-) Klenow Glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	[2]
T4 DNA Polymerase Glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	[2]
Klenow DNA Polymerase Glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	[2]
T4 Polynucleotide Kinase Glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	[2]
5X Herculase II Reaction Buffer Trometamol	EC: 201-064-4 CAS: 77-86-1	≤3	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	[1]
Herculase II Fusion DNA Polymerase Glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	[2]
			See Section 16 for the full text of the H statements declared above.	

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SECTION 3: Composition/information on ingredients

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

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	:	10X End Repair Buffer	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.
		5X T4 DNA Ligase 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.
		10x Klenow Polymerase Buffer	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.
		T4 DNA Ligase	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.
		Exo(-) Klenow	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.
		T4 DNA Polymerase	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.
		Klenow DNA Polymerase	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.
		T4 Polynucleotide Kinase	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.
		dATP	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.
		SureSelect PCR Primer 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.
		100 mM dNTP Mix (25 mM each dNTP)	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.
		5X Herculase II Reaction Buffer	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.
		Herculase II Fusion DNA Polymerase	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.
		SureSelect Pre-capture Indexed Adaptor Set A01-H12	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

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Inhalation	: 10X End Repair Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	5X T4 DNA Ligase 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.
	10x Klenow Polymerase Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	T4 DNA Ligase	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Exo(-) Klenow	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	T4 DNA Polymerase	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Klenow DNA Polymerase	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	T4 Polynucleotide Kinase	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	dATP	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureSelect PCR Primer Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	100 mM dNTP Mix (25 mM each dNTP)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	5X Herculase II Reaction Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	Herculase II Fusion DNA	Remove victim to fresh air and keep at rest in a position

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	Polymerase	comfortable for breathing. Get medical attention if symptoms occur.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	: 10X End Repair Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	5X T4 DNA Ligase 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.
	10x Klenow Polymerase Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	T4 DNA Ligase	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Exo(-) Klenow	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	T4 DNA Polymerase	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Klenow DNA Polymerase	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	T4 Polynucleotide Kinase	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	dATP	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect PCR Primer Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	100 mM dNTP Mix (25 mM each dNTP)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	5X Herculase II Reaction Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Herculase II Fusion DNA Polymerase	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: 10X End Repair Buffer	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	5X T4 DNA Ligase Buffer	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs,

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	<p>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.</p>
10x Klenow Polymerase Buffer	<p>Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.</p>
T4 DNA Ligase	<p>Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.</p>
Exo(-) Klenow	<p>Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.</p>
T4 DNA Polymerase	<p>Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.</p>
Klenow DNA Polymerase	<p>Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.</p>
T4 Polynucleotide Kinase	<p>Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.</p>
dATP	<p>Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.</p>
SureSelect PCR Primer Mix	<p>Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.</p>
100 mM dNTP Mix (25 mM each dNTP)	<p>Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.</p>
5X Herculase II Reaction	<p>Wash out mouth with water. Remove victim to fresh air and</p>

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Buffer	keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Herculase II Fusion DNA Polymerase	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
SureSelect Pre-capture Indexed Adaptor Set A01-H12	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Protection of first-aiders : 10X End Repair Buffer	No action shall be taken involving any personal risk or without suitable training.
5X T4 DNA Ligase Buffer	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
10x Klenow Polymerase Buffer	No action shall be taken involving any personal risk or without suitable training.
T4 DNA Ligase	No action shall be taken involving any personal risk or without suitable training.
Exo(-) Klenow	No action shall be taken involving any personal risk or without suitable training.
T4 DNA Polymerase	No action shall be taken involving any personal risk or without suitable training.
Klenow DNA Polymerase	No action shall be taken involving any personal risk or without suitable training.
T4 Polynucleotide Kinase	No action shall be taken involving any personal risk or without suitable training.
dATP	No action shall be taken involving any personal risk or without suitable training.
SureSelect PCR Primer Mix	No action shall be taken involving any personal risk or without suitable training.
100 mM dNTP Mix (25 mM each dNTP)	No action shall be taken involving any personal risk or without suitable training.
5X Herculase II Reaction Buffer	No action shall be taken involving any personal risk or without suitable training.
Herculase II Fusion DNA Polymerase	No action shall be taken involving any personal risk or without suitable training.
SureSelect Pre-capture Indexed Adaptor Set A01-H12	No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact :	10X End Repair Buffer	No known significant effects or critical hazards.
	5X T4 DNA Ligase Buffer	Causes serious eye irritation.
	10x Klenow Polymerase Buffer	No known significant effects or critical hazards.
	T4 DNA Ligase	No known significant effects or critical hazards.
	Exo(-) Klenow	No known significant effects or critical hazards.
	T4 DNA Polymerase	No known significant effects or critical hazards.
	Klenow DNA Polymerase	No known significant effects or critical hazards.
	T4 Polynucleotide Kinase	No known significant effects or critical hazards.
	dATP	No known significant effects or critical hazards.
	SureSelect PCR Primer	No known significant effects or critical hazards.

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	Mix	
	100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
	5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
	Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	No known significant effects or critical hazards.
Inhalation	: 10X End Repair Buffer	No known significant effects or critical hazards.
	5X T4 DNA Ligase Buffer	No known significant effects or critical hazards.
	10x Klenow Polymerase Buffer	No known significant effects or critical hazards.
	T4 DNA Ligase	No known significant effects or critical hazards.
	Exo(-) Klenow	No known significant effects or critical hazards.
	T4 DNA Polymerase	No known significant effects or critical hazards.
	Klenow DNA Polymerase	No known significant effects or critical hazards.
	T4 Polynucleotide Kinase	No known significant effects or critical hazards.
	dATP	No known significant effects or critical hazards.
	SureSelect PCR Primer	No known significant effects or critical hazards.
	Mix	
	100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
	5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
	Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	No known significant effects or critical hazards.
Skin contact	: 10X End Repair Buffer	No known significant effects or critical hazards.
	5X T4 DNA Ligase Buffer	No known significant effects or critical hazards.
	10x Klenow Polymerase Buffer	No known significant effects or critical hazards.
	T4 DNA Ligase	No known significant effects or critical hazards.
	Exo(-) Klenow	No known significant effects or critical hazards.
	T4 DNA Polymerase	No known significant effects or critical hazards.
	Klenow DNA Polymerase	No known significant effects or critical hazards.
	T4 Polynucleotide Kinase	No known significant effects or critical hazards.
	dATP	No known significant effects or critical hazards.
	SureSelect PCR Primer	No known significant effects or critical hazards.
	Mix	
	100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
	5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
	Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	No known significant effects or critical hazards.
Ingestion	: 10X End Repair Buffer	No known significant effects or critical hazards.
	5X T4 DNA Ligase Buffer	No known significant effects or critical hazards.
	10x Klenow Polymerase Buffer	No known significant effects or critical hazards.
	T4 DNA Ligase	No known significant effects or critical hazards.
	Exo(-) Klenow	No known significant effects or critical hazards.
	T4 DNA Polymerase	No known significant effects or critical hazards.
	Klenow DNA Polymerase	No known significant effects or critical hazards.
	T4 Polynucleotide Kinase	No known significant effects or critical hazards.

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dATP	No known significant effects or critical hazards.
SureSelect PCR Primer	No known significant effects or critical hazards.
Mix	
100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
SureSelect Pre-capture Indexed Adaptor Set A01-H12	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact

: 10X End Repair Buffer	No specific data.
5X T4 DNA Ligase Buffer	Adverse symptoms may include the following: pain or irritation watering redness
10x Klenow Polymerase Buffer	No specific data.
T4 DNA Ligase	No specific data.
Exo(-) Klenow	No specific data.
T4 DNA Polymerase	No specific data.
Klenow DNA Polymerase	No specific data.
T4 Polynucleotide Kinase	No specific data.
dATP	No specific data.
SureSelect PCR Primer	No specific data.
Mix	
100 mM dNTP Mix (25 mM each dNTP)	No specific data.
5X Herculase II Reaction Buffer	No specific data.
Herculase II Fusion DNA Polymerase	No specific data.
SureSelect Pre-capture Indexed Adaptor Set A01-H12	No specific data.

Inhalation

: 10X End Repair Buffer	No specific data.
5X T4 DNA Ligase Buffer	No specific data.
10x Klenow Polymerase Buffer	No specific data.
T4 DNA Ligase	No specific data.
Exo(-) Klenow	No specific data.
T4 DNA Polymerase	No specific data.
Klenow DNA Polymerase	No specific data.
T4 Polynucleotide Kinase	No specific data.
dATP	No specific data.
SureSelect PCR Primer	No specific data.
Mix	
100 mM dNTP Mix (25 mM each dNTP)	No specific data.
5X Herculase II Reaction Buffer	No specific data.
Herculase II Fusion DNA Polymerase	No specific data.
SureSelect Pre-capture Indexed Adaptor Set A01-H12	No specific data.

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Skin contact	:	10X End Repair Buffer	No specific data.	
		5X T4 DNA Ligase Buffer	No specific data.	
		10x Klenow Polymerase Buffer	No specific data.	
		T4 DNA Ligase	No specific data.	
		Exo(-) Klenow	No specific data.	
		T4 DNA Polymerase	No specific data.	
		Klenow DNA Polymerase	No specific data.	
		T4 Polynucleotide Kinase	No specific data.	
		dATP	No specific data.	
		SureSelect PCR Primer Mix	No specific data.	
		100 mM dNTP Mix (25 mM each dNTP)	No specific data.	
		5X Herculase II Reaction Buffer	No specific data.	
		Herculase II Fusion DNA Polymerase	No specific data.	
		SureSelect Pre-capture Indexed Adaptor Set A01-H12	No specific data.	
	Ingestion	:	10X End Repair Buffer	No specific data.
			5X T4 DNA Ligase Buffer	No specific data.
			10x Klenow Polymerase Buffer	No specific data.
		T4 DNA Ligase	No specific data.	
		Exo(-) Klenow	No specific data.	
		T4 DNA Polymerase	No specific data.	
		Klenow DNA Polymerase	No specific data.	
		T4 Polynucleotide Kinase	No specific data.	
		dATP	No specific data.	
		SureSelect PCR Primer Mix	No specific data.	
		100 mM dNTP Mix (25 mM each dNTP)	No specific data.	
		5X Herculase II Reaction Buffer	No specific data.	
		Herculase II Fusion DNA Polymerase	No specific data.	
		SureSelect Pre-capture Indexed Adaptor Set A01-H12	No specific data.	

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	:	10X End Repair 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.
		5X T4 DNA Ligase 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.
		10x Klenow Polymerase 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.
		T4 DNA Ligase	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		Exo(-) Klenow	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		T4 DNA Polymerase	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		Klenow DNA Polymerase	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

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	T4 Polynucleotide Kinase	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.
	dATP	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect PCR Primer Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	100 mM dNTP Mix (25 mM each dNTP)	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.
	5X Herculase II Reaction 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.
	Herculase II Fusion DNA Polymerase	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: 10X End Repair Buffer	No specific treatment.
	5X T4 DNA Ligase Buffer	No specific treatment.
	10x Klenow Polymerase Buffer	No specific treatment.
	T4 DNA Ligase	No specific treatment.
	Exo(-) Klenow	No specific treatment.
	T4 DNA Polymerase	No specific treatment.
	Klenow DNA Polymerase	No specific treatment.
	T4 Polynucleotide Kinase	No specific treatment.
	dATP	No specific treatment.
	SureSelect PCR Primer Mix	No specific treatment.
	100 mM dNTP Mix (25 mM each dNTP)	No specific treatment.
	5X Herculase II Reaction Buffer	No specific treatment.
	Herculase II Fusion DNA Polymerase	No specific treatment.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	: 10X End Repair Buffer	Use an extinguishing agent suitable for the surrounding fire.
	5X T4 DNA Ligase Buffer	Use an extinguishing agent suitable for the surrounding fire.
	10x Klenow Polymerase Buffer	Use an extinguishing agent suitable for the surrounding fire.
	T4 DNA Ligase	Use an extinguishing agent suitable for the surrounding fire.
	Exo(-) Klenow	Use an extinguishing agent suitable for the surrounding fire.
	T4 DNA Polymerase	Use an extinguishing agent suitable for the surrounding fire.
	Klenow DNA Polymerase	Use an extinguishing agent suitable for the surrounding fire.
	T4 Polynucleotide Kinase	Use an extinguishing agent suitable for the surrounding fire.
	dATP	Use an extinguishing agent suitable for the surrounding fire.
	SureSelect PCR Primer Mix	Use an extinguishing agent suitable for the surrounding fire.
	100 mM dNTP Mix (25 mM each dNTP)	Use an extinguishing agent suitable for the surrounding fire.
	5X Herculase II Reaction Buffer	Use an extinguishing agent suitable for the surrounding fire.
	Herculase II Fusion DNA Polymerase	Use an extinguishing agent suitable for the surrounding fire.
	SureSelect Pre-capture	Use an extinguishing agent suitable for the surrounding fire.

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	Indexed Adaptor Set A01-H12	
Unsuitable extinguishing media	10X End Repair Buffer	None known.
	5X T4 DNA Ligase Buffer	None known.
	10x Klenow Polymerase Buffer	None known.
	T4 DNA Ligase	None known.
	Exo(-) Klenow	None known.
	T4 DNA Polymerase	None known.
	Klenow DNA Polymerase	None known.
	T4 Polynucleotide Kinase	None known.
	dATP	None known.
	SureSelect PCR Primer Mix	None known.
	100 mM dNTP Mix (25 mM each dNTP)	None known.
	5X Herculase II Reaction Buffer	None known.
	Herculase II Fusion DNA Polymerase	None known.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	10X End Repair Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
	5X T4 DNA Ligase Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
	10x Klenow Polymerase Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
	T4 DNA Ligase	In a fire or if heated, a pressure increase will occur and the container may burst.
	Exo(-) Klenow	In a fire or if heated, a pressure increase will occur and the container may burst.
	T4 DNA Polymerase	In a fire or if heated, a pressure increase will occur and the container may burst.
	Klenow DNA Polymerase	In a fire or if heated, a pressure increase will occur and the container may burst.
	T4 Polynucleotide Kinase	In a fire or if heated, a pressure increase will occur and the container may burst.
	dATP	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureSelect PCR Primer Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
	100 mM dNTP Mix (25 mM each dNTP)	In a fire or if heated, a pressure increase will occur and the container may burst.
	5X Herculase II Reaction Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
	Herculase II Fusion DNA Polymerase	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	In a fire or if heated, a pressure increase will occur and the container may burst.

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Hazardous combustion products	: 10X End Repair Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides halogenated compounds metal oxide/oxides
	5X T4 DNA Ligase Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides
	10x Klenow Polymerase Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides
	T4 DNA Ligase	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	Exo(-) Klenow	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	T4 DNA Polymerase	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	Klenow DNA Polymerase	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	T4 Polynucleotide Kinase	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides
	dATP	No specific data.
	SureSelect PCR Primer Mix	No specific data.
	100 mM dNTP Mix (25 mM each dNTP)	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides
	5X Herculase II Reaction Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides
	Herculase II Fusion DNA Polymerase	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	No specific data.

SECTION 5: Firefighting measures

5.3 Advice for firefighters

Special precautions for fire-fighters	: 10X End Repair 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.
	5X T4 DNA Ligase 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.
	10x Klenow Polymerase 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.
	T4 DNA Ligase	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.
	Exo(-) Klenow	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.
	T4 DNA Polymerase	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.
	Klenow DNA Polymerase	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.
	T4 Polynucleotide Kinase	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.
	dATP	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.
	SureSelect PCR Primer 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.
	100 mM dNTP Mix (25 mM each dNTP)	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	5X Herculase II Reaction 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.
	Herculase II Fusion DNA Polymerase	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.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	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	: 10X End Repair 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.
	5X T4 DNA Ligase 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.
	10x Klenow Polymerase 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.

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T4 DNA Ligase	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.
Exo(-) Klenow	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.
T4 DNA Polymerase	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.
Klenow DNA Polymerase	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.
T4 Polynucleotide Kinase	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.
dATP	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.
SureSelect PCR Primer 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.
100 mM dNTP Mix (25 mM each dNTP)	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.
5X Herculase II Reaction 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.
Herculase II Fusion DNA Polymerase	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.
SureSelect Pre-capture Indexed Adaptor Set	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full

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face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: 10X End Repair 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. Put on appropriate personal protective equipment.

5X T4 DNA Ligase 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.

10x Klenow Polymerase 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. Put on appropriate personal protective equipment.

T4 DNA Ligase

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.

Exo(-) Klenow

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.

T4 DNA Polymerase

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.

Klenow DNA Polymerase

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.

T4 Polynucleotide Kinase

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.

dATP

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.

SureSelect PCR Primer 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.

100 mM dNTP Mix (25 mM each dNTP)

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

SECTION 6: Accidental release measures

		Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	5X Herculase II Reaction 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. Put on appropriate personal protective equipment.
	Herculase II Fusion DNA Polymerase	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.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
For emergency responders	: 10X End Repair 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".
	5X T4 DNA Ligase 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".
	10x Klenow Polymerase 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".
	T4 DNA Ligase	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".
	Exo(-) Klenow	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".
	T4 DNA Polymerase	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".
	Klenow DNA Polymerase	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".
	T4 Polynucleotide Kinase	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".
	dATP	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".
	SureSelect PCR Primer 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".
	100 mM dNTP Mix (25 mM each dNTP)	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

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5X Herculase II Reaction 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".
Herculase II Fusion DNA Polymerase	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".
SureSelect Pre-capture Indexed Adaptor Set A01-H12	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

: 10X End Repair 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).
5X T4 DNA Ligase 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).
10x Klenow Polymerase 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).
T4 DNA Ligase	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).
Exo(-) Klenow	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).
T4 DNA Polymerase	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).
Klenow DNA Polymerase	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).
T4 Polynucleotide Kinase	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).
dATP	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).
SureSelect PCR Primer 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).
100 mM dNTP Mix (25 mM each dNTP)	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).
5X Herculase II Reaction 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).
Herculase II Fusion DNA	Avoid dispersal of spilt material and runoff and contact with

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Polymerase	soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect Pre-capture Indexed Adaptor Set A01-H12	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	: 10X End Repair Buffer	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	5X T4 DNA Ligase Buffer	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	10x Klenow Polymerase Buffer	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	T4 DNA Ligase	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.
	Exo(-) Klenow	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.
	T4 DNA Polymerase	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.
	Klenow DNA Polymerase	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.
	T4 Polynucleotide Kinase	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.
	dATP	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.
	SureSelect PCR Primer 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.
	100 mM dNTP Mix (25 mM each dNTP)	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively,

SECTION 6: Accidental release measures

	or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
5X Herculase II Reaction Buffer	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Herculase II Fusion DNA Polymerase	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.
SureSelect Pre-capture Indexed Adaptor Set A01-H12	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

Protective measures	: 10X End Repair Buffer	Put on appropriate personal protective equipment (see Section 8).
	5X T4 DNA Ligase 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.
	10x Klenow Polymerase Buffer	Put on appropriate personal protective equipment (see Section 8).
	T4 DNA Ligase	Put on appropriate personal protective equipment (see Section 8).
	Exo(-) Klenow	Put on appropriate personal protective equipment (see Section 8).
	T4 DNA Polymerase	Put on appropriate personal protective equipment (see Section 8).
	Klenow DNA Polymerase	Put on appropriate personal protective equipment (see Section 8).
	T4 Polynucleotide Kinase	Put on appropriate personal protective equipment (see Section 8).
	dATP	Put on appropriate personal protective equipment (see Section 8).
	SureSelect PCR Primer Mix	Put on appropriate personal protective equipment (see Section 8).
	100 mM dNTP Mix (25 mM each dNTP)	Put on appropriate personal protective equipment (see Section 8).
	5X Herculase II Reaction Buffer	Put on appropriate personal protective equipment (see Section 8).
	Herculase II Fusion DNA Polymerase	Put on appropriate personal protective equipment (see Section 8).
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	Put on appropriate personal protective equipment (see Section 8).

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Advice on general occupational hygiene

: 10X End Repair 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.
5X T4 DNA Ligase 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.
10x Klenow Polymerase 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.
T4 DNA Ligase	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.
Exo(-) Klenow	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.
T4 DNA Polymerase	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.
Klenow DNA Polymerase	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.
T4 Polynucleotide Kinase	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.
dATP	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.
SureSelect PCR Primer 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.
100 mM dNTP Mix (25 mM each dNTP)	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

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5X Herculase II Reaction Buffer	Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Herculase II Fusion DNA Polymerase	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.
SureSelect Pre-capture Indexed Adaptor Set A01-H12	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	: 10X End Repair 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.
	5X T4 DNA Ligase 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.
	10x Klenow Polymerase 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.
	T4 DNA Ligase	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use

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	<p>appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
Exo(-) Klenow	<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>
T4 DNA Polymerase	<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>
Klenow DNA Polymerase	<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>
T4 Polynucleotide Kinase	<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>
dATP	<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>
SureSelect PCR Primer Mix	<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</p>

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100 mM dNTP Mix (25 mM each dNTP)	before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
5X Herculase II Reaction 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.
Herculase II Fusion DNA Polymerase	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.
SureSelect Pre-capture Indexed Adaptor Set A01-H12	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)

Recommendations

: 10X End Repair Buffer	Industrial applications, Professional applications.
5X T4 DNA Ligase Buffer	Industrial applications, Professional applications.
10x Klenow Polymerase Buffer	Industrial applications, Professional applications.
T4 DNA Ligase	Industrial applications, Professional applications.
Exo(-) Klenow	Industrial applications, Professional applications.
T4 DNA Polymerase	Industrial applications, Professional applications.
Klenow DNA Polymerase	Industrial applications, Professional applications.
T4 Polynucleotide Kinase	Industrial applications, Professional applications.
dATP	Industrial applications, Professional applications.
SureSelect PCR Primer Mix	Industrial applications, Professional applications.
100 mM dNTP Mix (25 mM each dNTP)	Industrial applications, Professional applications.
5X Herculase II Reaction Buffer	Industrial applications, Professional applications.
Herculase II Fusion DNA Polymerase	Industrial applications, Professional applications.

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	SureSelect Pre-capture Indexed Adaptor Set A01-H12	Industrial applications, Professional applications.
Industrial sector specific solutions	: 10X End Repair Buffer	Not applicable.
	5X T4 DNA Ligase Buffer	Not applicable.
	10x Klenow Polymerase Buffer	Not applicable.
	T4 DNA Ligase	Not applicable.
	Exo(-) Klenow	Not applicable.
	T4 DNA Polymerase	Not applicable.
	Klenow DNA Polymerase	Not applicable.
	T4 Polynucleotide Kinase	Not applicable.
	dATP	Not applicable.
	SureSelect PCR Primer Mix	Not applicable.
	100 mM dNTP Mix (25 mM each dNTP)	Not applicable.
	5X Herculase II Reaction Buffer	Not applicable.
	Herculase II Fusion DNA Polymerase	Not applicable.
SureSelect Pre-capture Indexed Adaptor Set A01-H12	Not applicable.	

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
T4 DNA Ligase Glycerol	EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 10 mg/m ³ 8 hours. Form: Mist
Exo(-) Klenow Glycerol	EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 10 mg/m ³ 8 hours. Form: Mist
T4 DNA Polymerase Glycerol	EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 10 mg/m ³ 8 hours. Form: Mist
Klenow DNA Polymerase Glycerol	EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 10 mg/m ³ 8 hours. Form: Mist
T4 Polynucleotide Kinase Glycerol	EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 10 mg/m ³ 8 hours. Form: Mist
Herculase II Fusion DNA Polymerase Glycerol	EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 10 mg/m ³ 8 hours. Form: Mist

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

No DNELs/DMELs available.

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

9.1 Information on basic physical and chemical properties

Appearance

Physical state	: 10X End Repair Buffer	Liquid.	
	5X T4 DNA Ligase Buffer	Liquid.	
	10x Klenow Polymerase Buffer	Liquid.	
	T4 DNA Ligase	Liquid.	
	Exo(-) Klenow	Liquid.	
	T4 DNA Polymerase	Liquid.	
	Klenow DNA Polymerase	Liquid.	
	T4 Polynucleotide Kinase	Liquid.	
	dATP	Liquid.	
	SureSelect PCR Primer Mix	Liquid.	
	100 mM dNTP Mix (25 mM each dNTP)	Liquid.	
	5X Herculase II Reaction Buffer	Liquid.	
	Herculase II Fusion DNA Polymerase	Liquid.	
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	Liquid.	
	Colour	: 10X End Repair Buffer	Not available.
		5X T4 DNA Ligase Buffer	Not available.
		10x Klenow Polymerase Buffer	Not available.
		T4 DNA Ligase	Not available.
		Exo(-) Klenow	Not available.
		T4 DNA Polymerase	Not available.
Klenow DNA Polymerase		Not available.	
T4 Polynucleotide Kinase		Not available.	
dATP		Not available.	
SureSelect PCR Primer Mix		Not available.	
100 mM dNTP Mix (25 mM each dNTP)		Not available.	
5X Herculase II Reaction Buffer		Not available.	
Herculase II Fusion DNA Polymerase		Not available.	
SureSelect Pre-capture Indexed Adaptor Set A01-H12		Not available.	
Odour		: 10X End Repair Buffer	Not available.
		5X T4 DNA Ligase Buffer	Not available.
		10x Klenow Polymerase Buffer	Not available.
		T4 DNA Ligase	Not available.
		Exo(-) Klenow	Not available.
		T4 DNA Polymerase	Not available.
	Klenow DNA Polymerase	Not available.	
	T4 Polynucleotide	Not available.	

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	Kinase	
	dATP	Not available.
	SureSelect PCR Primer Mix	Not available.
	100 mM dNTP Mix (25 mM each dNTP)	Not available.
	5X Herculase II Reaction Buffer	Not available.
	Herculase II Fusion DNA Polymerase	Not available.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	Not available.
Odour threshold	: 10X End Repair Buffer	Not available.
	5X T4 DNA Ligase Buffer	Not available.
	10x Klenow Polymerase Buffer	Not available.
	T4 DNA Ligase	Not available.
	Exo(-) Klenow	Not available.
	T4 DNA Polymerase	Not available.
	Klenow DNA Polymerase	Not available.
	T4 Polynucleotide Kinase	Not available.
	dATP	Not available.
	SureSelect PCR Primer Mix	Not available.
	100 mM dNTP Mix (25 mM each dNTP)	Not available.
	5X Herculase II Reaction Buffer	Not available.
	Herculase II Fusion DNA Polymerase	Not available.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	Not available.
pH	: 10X End Repair Buffer	7 to 8
	5X T4 DNA Ligase Buffer	7 to 8
	10x Klenow Polymerase Buffer	7 to 8
	T4 DNA Ligase	7 to 8
	Exo(-) Klenow	6.5 to 7.5
	T4 DNA Polymerase	6 to 7
	Klenow DNA Polymerase	6.5 to 7.5
	T4 Polynucleotide Kinase	6.9 to 7.9
	dATP	7 to 8
	SureSelect PCR Primer Mix	7 to 8
	100 mM dNTP Mix (25 mM each dNTP)	6.9 to 7.9
	5X Herculase II Reaction Buffer	9.5 to 10.5
	Herculase II Fusion DNA Polymerase	7.5 to 8.7
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	7 to 8

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Melting point/freezing point	: 10X End Repair Buffer	Not available.	
	5X T4 DNA Ligase Buffer	Not available.	
	10x Klenow Polymerase Buffer	Not available.	
	T4 DNA Ligase	Not available.	
	Exo(-) Klenow	Not available.	
	T4 DNA Polymerase	Not available.	
	Klenow DNA Polymerase	Not available.	
	T4 Polynucleotide Kinase	Not available.	
	dATP	0°C	
	SureSelect PCR Primer Mix	0°C	
	100 mM dNTP Mix (25 mM each dNTP)	Not available.	
	5X Herculase II Reaction Buffer	Not available.	
	Herculase II Fusion DNA Polymerase	Not available.	
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	0°C	
	Initial boiling point and boiling range	: 10X End Repair Buffer	Not available.
		5X T4 DNA Ligase Buffer	Not available.
		10x Klenow Polymerase Buffer	Not available.
		T4 DNA Ligase	Not available.
		Exo(-) Klenow	Not available.
		T4 DNA Polymerase	Not available.
Klenow DNA Polymerase		Not available.	
T4 Polynucleotide Kinase		Not available.	
dATP		100°C	
SureSelect PCR Primer Mix		100°C	
100 mM dNTP Mix (25 mM each dNTP)		Not available.	
5X Herculase II Reaction Buffer		Not available.	
Herculase II Fusion DNA Polymerase		Not available.	
SureSelect Pre-capture Indexed Adaptor Set A01-H12		100°C	
Flash point		: 10X End Repair Buffer	Not available.
		5X T4 DNA Ligase Buffer	Not available.
		10x Klenow Polymerase Buffer	Not available.
		T4 DNA Ligase	Not available.
		Exo(-) Klenow	Not available.
		T4 DNA Polymerase	Not available.
	Klenow DNA Polymerase	Not available.	
	T4 Polynucleotide Kinase	Not available.	
	dATP	Not available.	
	SureSelect PCR Primer	Not available.	

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SECTION 9: Physical and chemical properties

	Mix	
	100 mM dNTP Mix (25 mM each dNTP)	Not available.
	5X Herculase II Reaction Buffer	Not available.
	Herculase II Fusion DNA Polymerase	Not available.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	Not available.
Evaporation rate	: 10X End Repair Buffer	Not available.
	5X T4 DNA Ligase Buffer	Not available.
	10x Klenow Polymerase Buffer	Not available.
	T4 DNA Ligase	Not available.
	Exo(-) Klenow	Not available.
	T4 DNA Polymerase	Not available.
	Klenow DNA Polymerase	Not available.
	T4 Polynucleotide Kinase	Not available.
	dATP	Not available.
	SureSelect PCR Primer Mix	Not available.
	100 mM dNTP Mix (25 mM each dNTP)	Not available.
	5X Herculase II Reaction Buffer	Not available.
	Herculase II Fusion DNA Polymerase	Not available.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	Not available.
Flammability (solid, gas)	: 10X End Repair Buffer	Not applicable.
	5X T4 DNA Ligase Buffer	Not applicable.
	10x Klenow Polymerase Buffer	Not applicable.
	T4 DNA Ligase	Not applicable.
	Exo(-) Klenow	Not applicable.
	T4 DNA Polymerase	Not applicable.
	Klenow DNA Polymerase	Not applicable.
	T4 Polynucleotide Kinase	Not applicable.
	dATP	Not applicable.
	SureSelect PCR Primer Mix	Not applicable.
	100 mM dNTP Mix (25 mM each dNTP)	Not applicable.
	5X Herculase II Reaction Buffer	Not applicable.
	Herculase II Fusion DNA Polymerase	Not applicable.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	Not applicable.

SECTION 9: Physical and chemical properties

	SureSelect PCR Primer Mix	Not available.
	100 mM dNTP Mix (25 mM each dNTP)	Not available.
	5X Herculase II Reaction Buffer	Not available.
	Herculase II Fusion DNA Polymerase	Not available.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	Not available.
Relative density	: 10X End Repair Buffer	Not available.
	5X T4 DNA Ligase Buffer	Not available.
	10x Klenow Polymerase Buffer	Not available.
	T4 DNA Ligase	Not available.
	Exo(-) Klenow	Not available.
	T4 DNA Polymerase	Not available.
	Klenow DNA Polymerase	Not available.
	T4 Polynucleotide Kinase	Not available.
	dATP	Not available.
	SureSelect PCR Primer Mix	Not available.
	100 mM dNTP Mix (25 mM each dNTP)	Not available.
	5X Herculase II Reaction Buffer	Not available.
	Herculase II Fusion DNA Polymerase	Not available.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	Not available.
Solubility(ies)	: 10X End Repair Buffer	Easily soluble in the following materials: cold water and hot water.
	5X T4 DNA Ligase Buffer	Easily soluble in the following materials: cold water and hot water.
	10x Klenow Polymerase Buffer	Easily soluble in the following materials: cold water and hot water.
	T4 DNA Ligase	Soluble in the following materials: cold water and hot water.
	Exo(-) Klenow	Not available.
	T4 DNA Polymerase	Soluble in the following materials: cold water and hot water.
	Klenow DNA Polymerase	Soluble in the following materials: cold water and hot water.
	T4 Polynucleotide Kinase	Soluble in the following materials: cold water and hot water.
	dATP	Easily soluble in the following materials: cold water and hot water.
	SureSelect PCR Primer Mix	Easily soluble in the following materials: cold water and hot water.
	100 mM dNTP Mix (25 mM each dNTP)	Easily soluble in the following materials: cold water and hot water.
	5X Herculase II Reaction Buffer	Easily soluble in the following materials: cold water and hot water.
	Herculase II Fusion DNA Polymerase	Soluble in the following materials: cold water and hot water.
	SureSelect Pre-capture	Easily soluble in the following materials: cold water and

SECTION 9: Physical and chemical properties

	Indexed Adaptor Set A01-H12	hot water.
Partition coefficient: n-octanol/water	: 10X End Repair Buffer	Not available.
	5X T4 DNA Ligase Buffer	Not available.
	10x Klenow Polymerase Buffer	Not available.
	T4 DNA Ligase	Not available.
	Exo(-) Klenow	Not available.
	T4 DNA Polymerase	Not available.
	Klenow DNA Polymerase	Not available.
	T4 Polynucleotide Kinase	Not available.
	dATP	Not available.
	SureSelect PCR Primer Mix	Not available.
	100 mM dNTP Mix (25 mM each dNTP)	Not available.
	5X Herculase II Reaction Buffer	Not available.
	Herculase II Fusion DNA Polymerase	Not available.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	Not available.
Auto-ignition temperature	: 10X End Repair Buffer	Not available.
	5X T4 DNA Ligase Buffer	Not available.
	10x Klenow Polymerase Buffer	Not available.
	T4 DNA Ligase	Not available.
	Exo(-) Klenow	Not available.
	T4 DNA Polymerase	Not available.
	Klenow DNA Polymerase	Not available.
	T4 Polynucleotide Kinase	Not available.
	dATP	Not available.
	SureSelect PCR Primer Mix	Not available.
	100 mM dNTP Mix (25 mM each dNTP)	Not available.
	5X Herculase II Reaction Buffer	Not available.
	Herculase II Fusion DNA Polymerase	Not available.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	Not available.
Decomposition temperature	: 10X End Repair Buffer	Not available.
	5X T4 DNA Ligase Buffer	Not available.
	10x Klenow Polymerase Buffer	Not available.
	T4 DNA Ligase	Not available.
	Exo(-) Klenow	Not available.
	T4 DNA Polymerase	Not available.
	Klenow DNA Polymerase	Not available.
	T4 Polynucleotide	Not available.

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SECTION 9: Physical and chemical properties

	Kinase	
	dATP	Not available.
	SureSelect PCR Primer Mix	Not available.
	100 mM dNTP Mix (25 mM each dNTP)	Not available.
	5X Herculase II Reaction Buffer	Not available.
	Herculase II Fusion	Not available.
	DNA Polymerase	
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	Not available.
Viscosity	: 10X End Repair Buffer	Not available.
	5X T4 DNA Ligase Buffer	Not available.
	10x Klenow Polymerase Buffer	Not available.
	T4 DNA Ligase	Not available.
	Exo(-) Klenow	Not available.
	T4 DNA Polymerase	Not available.
	Klenow DNA Polymerase	Not available.
	T4 Polynucleotide Kinase	Not available.
	dATP	Not available.
	SureSelect PCR Primer Mix	Not available.
	100 mM dNTP Mix (25 mM each dNTP)	Not available.
	5X Herculase II Reaction Buffer	Not available.
	Herculase II Fusion	Not available.
	DNA Polymerase	
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	Not available.
Explosive properties	: 10X End Repair Buffer	Not available.
	5X T4 DNA Ligase Buffer	Not available.
	10x Klenow Polymerase Buffer	Not available.
	T4 DNA Ligase	Not available.
	Exo(-) Klenow	Not available.
	T4 DNA Polymerase	Not available.
	Klenow DNA Polymerase	Not available.
	T4 Polynucleotide Kinase	Not available.
	dATP	Not available.
	SureSelect PCR Primer Mix	Not available.
	100 mM dNTP Mix (25 mM each dNTP)	Not available.
	5X Herculase II Reaction Buffer	Not available.
	Herculase II Fusion	Not available.
	DNA Polymerase	
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	Not available.

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SECTION 9: Physical and chemical properties

Oxidising properties	:	10X End Repair Buffer	Not available.
		5X T4 DNA Ligase Buffer	Not available.
		10x Klenow Polymerase Buffer	Not available.
		T4 DNA Ligase	Not available.
		Exo(-) Klenow	Not available.
		T4 DNA Polymerase	Not available.
		Klenow DNA Polymerase	Not available.
		T4 Polynucleotide Kinase	Not available.
		dATP	Not available.
		SureSelect PCR Primer Mix	Not available.
		100 mM dNTP Mix (25 mM each dNTP)	Not available.
		5X Herculase II Reaction Buffer	Not available.
		Herculase II Fusion DNA Polymerase	Not available.
		SureSelect Pre-capture Indexed Adaptor Set A01-H12	Not available.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	:	10X End Repair Buffer	No specific test data related to reactivity available for this product or its ingredients.
		5X T4 DNA Ligase Buffer	No specific test data related to reactivity available for this product or its ingredients.
		10x Klenow Polymerase Buffer	No specific test data related to reactivity available for this product or its ingredients.
		T4 DNA Ligase	No specific test data related to reactivity available for this product or its ingredients.
		Exo(-) Klenow	No specific test data related to reactivity available for this product or its ingredients.
		T4 DNA Polymerase	No specific test data related to reactivity available for this product or its ingredients.
		Klenow DNA Polymerase	No specific test data related to reactivity available for this product or its ingredients.
		T4 Polynucleotide Kinase	No specific test data related to reactivity available for this product or its ingredients.
		dATP	No specific test data related to reactivity available for this product or its ingredients.
		SureSelect PCR Primer Mix	No specific test data related to reactivity available for this product or its ingredients.
		100 mM dNTP Mix (25 mM each dNTP)	No specific test data related to reactivity available for this product or its ingredients.
		5X Herculase II Reaction Buffer	No specific test data related to reactivity available for this product or its ingredients.
		Herculase II Fusion DNA Polymerase	No specific test data related to reactivity available for this product or its ingredients.
		SureSelect Pre-capture Indexed Adaptor Set A01-H12	No specific test data related to reactivity available for this product or its ingredients.

SECTION 10: Stability and reactivity

10.2 Chemical stability	:	<p>10X End Repair Buffer The product is stable. 5X T4 DNA Ligase Buffer The product is stable. 10x Klenow Polymerase Buffer The product is stable. T4 DNA Ligase The product is stable. Exo(-) Klenow The product is stable. T4 DNA Polymerase The product is stable. Klenow DNA Polymerase The product is stable. T4 Polynucleotide Kinase The product is stable. dATP The product is stable. SureSelect PCR Primer Mix The product is stable. 100 mM dNTP Mix (25 mM each dNTP) The product is stable. 5X Herculase II Reaction Buffer The product is stable. Herculase II Fusion DNA Polymerase The product is stable. SureSelect Pre-capture Indexed Adaptor Set A01-H12 The product is stable.</p>
10.3 Possibility of hazardous reactions	:	<p>10X End Repair Buffer Under normal conditions of storage and use, hazardous reactions will not occur. 5X T4 DNA Ligase Buffer Under normal conditions of storage and use, hazardous reactions will not occur. 10x Klenow Polymerase Buffer Under normal conditions of storage and use, hazardous reactions will not occur. T4 DNA Ligase Under normal conditions of storage and use, hazardous reactions will not occur. Exo(-) Klenow Under normal conditions of storage and use, hazardous reactions will not occur. T4 DNA Polymerase Under normal conditions of storage and use, hazardous reactions will not occur. Klenow DNA Polymerase Under normal conditions of storage and use, hazardous reactions will not occur. T4 Polynucleotide Kinase Under normal conditions of storage and use, hazardous reactions will not occur. dATP Under normal conditions of storage and use, hazardous reactions will not occur. SureSelect PCR Primer Mix Under normal conditions of storage and use, hazardous reactions will not occur. 100 mM dNTP Mix (25 mM each dNTP) Under normal conditions of storage and use, hazardous reactions will not occur. 5X Herculase II Reaction Buffer Under normal conditions of storage and use, hazardous reactions will not occur. Herculase II Fusion DNA Polymerase Under normal conditions of storage and use, hazardous reactions will not occur. SureSelect Pre-capture Indexed Adaptor Set A01-H12 Under normal conditions of storage and use, hazardous reactions will not occur.</p>
10.4 Conditions to avoid	:	<p>10X End Repair Buffer No specific data. 5X T4 DNA Ligase Buffer No specific data. 10x Klenow Polymerase Buffer No specific data. T4 DNA Ligase No specific data. Exo(-) Klenow No specific data. T4 DNA Polymerase No specific data. Klenow DNA Polymerase No specific data. T4 Polynucleotide Kinase No specific data.</p>

SECTION 10: Stability and reactivity

dATP	No specific data.
SureSelect PCR Primer Mix	No specific data.
100 mM dNTP Mix (25 mM each dNTP)	No specific data.
5X Herculase II Reaction Buffer	No specific data.
Herculase II Fusion DNA Polymerase	No specific data.
SureSelect Pre-capture Indexed Adaptor Set A01-H12	No specific data.

10.5 Incompatible materials

: 10X End Repair Buffer	May react or be incompatible with oxidising materials.
5X T4 DNA Ligase Buffer	May react or be incompatible with oxidising materials.
10x Klenow Polymerase Buffer	May react or be incompatible with oxidising materials.
T4 DNA Ligase	May react or be incompatible with oxidising materials.
Exo(-) Klenow	May react or be incompatible with oxidising materials.
T4 DNA Polymerase	May react or be incompatible with oxidising materials.
Klenow DNA Polymerase	May react or be incompatible with oxidising materials.
T4 Polynucleotide Kinase	May react or be incompatible with oxidising materials.
dATP	May react or be incompatible with oxidising materials.
SureSelect PCR Primer Mix	May react or be incompatible with oxidising materials.
100 mM dNTP Mix (25 mM each dNTP)	May react or be incompatible with oxidising materials.
5X Herculase II Reaction Buffer	May react or be incompatible with oxidising materials.
Herculase II Fusion DNA Polymerase	May react or be incompatible with oxidising materials.
SureSelect Pre-capture Indexed Adaptor Set A01-H12	May react or be incompatible with oxidising materials.

10.6 Hazardous decomposition products

: 10X End Repair Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
5X T4 DNA Ligase Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
10x Klenow Polymerase Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
T4 DNA Ligase	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Exo(-) Klenow	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
T4 DNA Polymerase	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Klenow DNA Polymerase	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
T4 Polynucleotide Kinase	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
dATP	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureSelect PCR Primer Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
100 mM dNTP Mix (25 mM each dNTP)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
5X Herculase II Reaction Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Herculase II Fusion DNA Polymerase	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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SECTION 10: Stability and reactivity

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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 Herculase II Reaction Buffer Trometamol	LD50 Dermal	Rat	>5000 mg/kg	-
	LD50 Oral	Rat	5000 mg/kg	-

Acute toxicity estimates

Route	ATE value
10X End Repair Buffer Oral	32467.5 mg/kg

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
5X Herculase II Reaction Buffer Trometamol	Skin - Moderate irritant	Rabbit	-	25 Percent	-
	Skin - Severe irritant	Rabbit	-	500 milligrams	-

Sensitiser

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
10X End Repair Buffer 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	Category 3	Not applicable.	Respiratory tract irritation
(R*,R*)-1,4-Dimercaptobutane-2,3-diol	Category 3	Not applicable.	Respiratory tract irritation
5X T4 DNA Ligase Buffer 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	Category 3	Not applicable.	Respiratory tract irritation
10x Klenow Polymerase Buffer 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	Category 3	Not applicable.	Respiratory tract irritation
5X Herculase II Reaction Buffer Trometamol	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

SECTION 11: Toxicological information

Information on likely routes of exposure	: 10X End Repair Buffer	Routes of entry anticipated: Oral, Dermal, Inhalation.
	5X T4 DNA Ligase Buffer	Routes of entry anticipated: Oral, Dermal, Inhalation.
	10x Klenow Polymerase Buffer	Routes of entry anticipated: Oral, Dermal, Inhalation.
	T4 DNA Ligase	Routes of entry anticipated: Oral, Dermal, Inhalation.
	Exo(-) Klenow	Routes of entry anticipated: Oral, Dermal, Inhalation.
	T4 DNA Polymerase	Routes of entry anticipated: Oral, Dermal, Inhalation.
	Klenow DNA Polymerase	Routes of entry anticipated: Oral, Dermal, Inhalation.
	T4 Polynucleotide Kinase	Routes of entry anticipated: Oral, Dermal, Inhalation.
	dATP	Not available.
	SureSelect PCR Primer Mix	Not available.
	100 mM dNTP Mix (25 mM each dNTP)	Not available.
	5X Herculase II Reaction Buffer	Routes of entry anticipated: Oral, Dermal, Inhalation.
	Herculase II Fusion DNA Polymerase	Routes of entry anticipated: Oral, Dermal, Inhalation.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	Not available.

Potential acute health effects

Inhalation	: 10X End Repair Buffer	No known significant effects or critical hazards.
	5X T4 DNA Ligase Buffer	No known significant effects or critical hazards.
	10x Klenow Polymerase Buffer	No known significant effects or critical hazards.
	T4 DNA Ligase	No known significant effects or critical hazards.
	Exo(-) Klenow	No known significant effects or critical hazards.
	T4 DNA Polymerase	No known significant effects or critical hazards.
	Klenow DNA Polymerase	No known significant effects or critical hazards.
	T4 Polynucleotide Kinase	No known significant effects or critical hazards.
	dATP	No known significant effects or critical hazards.
	SureSelect PCR Primer Mix	No known significant effects or critical hazards.
	100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
	5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
	Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	No known significant effects or critical hazards.
	Ingestion	: 10X End Repair Buffer
5X T4 DNA Ligase Buffer		No known significant effects or critical hazards.
10x Klenow Polymerase Buffer		No known significant effects or critical hazards.
T4 DNA Ligase		No known significant effects or critical hazards.
Exo(-) Klenow		No known significant effects or critical hazards.
T4 DNA Polymerase		No known significant effects or critical hazards.
Klenow DNA Polymerase		No known significant effects or critical hazards.
T4 Polynucleotide Kinase		No known significant effects or critical hazards.
dATP		No known significant effects or critical hazards.
SureSelect PCR Primer Mix		No known significant effects or critical hazards.
100 mM dNTP Mix (25 mM each dNTP)		No known significant effects or critical hazards.
5X Herculase II Reaction Buffer		No known significant effects or critical hazards.
Herculase II Fusion DNA Polymerase		No known significant effects or critical hazards.

SECTION 11: Toxicological information

	SureSelect Pre-capture Indexed Adaptor Set A01-H12	No known significant effects or critical hazards.
Skin contact	: 10X End Repair Buffer	No known significant effects or critical hazards.
	5X T4 DNA Ligase Buffer	No known significant effects or critical hazards.
	10x Klenow Polymerase Buffer	No known significant effects or critical hazards.
	T4 DNA Ligase	No known significant effects or critical hazards.
	Exo(-) Klenow	No known significant effects or critical hazards.
	T4 DNA Polymerase	No known significant effects or critical hazards.
	Klenow DNA Polymerase	No known significant effects or critical hazards.
	T4 Polynucleotide Kinase	No known significant effects or critical hazards.
	dATP	No known significant effects or critical hazards.
	SureSelect PCR Primer Mix	No known significant effects or critical hazards.
	100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
	5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
	Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	No known significant effects or critical hazards.
Eye contact	: 10X End Repair Buffer	No known significant effects or critical hazards.
	5X T4 DNA Ligase Buffer	Causes serious eye irritation.
	10x Klenow Polymerase Buffer	No known significant effects or critical hazards.
	T4 DNA Ligase	No known significant effects or critical hazards.
	Exo(-) Klenow	No known significant effects or critical hazards.
	T4 DNA Polymerase	No known significant effects or critical hazards.
	Klenow DNA Polymerase	No known significant effects or critical hazards.
	T4 Polynucleotide Kinase	No known significant effects or critical hazards.
	dATP	No known significant effects or critical hazards.
	SureSelect PCR Primer Mix	No known significant effects or critical hazards.
	100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
	5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
	Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation	: 10X End Repair Buffer	No specific data.
	5X T4 DNA Ligase Buffer	No specific data.
	10x Klenow Polymerase Buffer	No specific data.
	T4 DNA Ligase	No specific data.
	Exo(-) Klenow	No specific data.
	T4 DNA Polymerase	No specific data.
	Klenow DNA Polymerase	No specific data.
	T4 Polynucleotide Kinase	No specific data.
	dATP	No specific data.
	SureSelect PCR Primer Mix	No specific data.
	100 mM dNTP Mix (25 mM each dNTP)	No specific data.

SECTION 11: Toxicological information

	5X Herculase II Reaction Buffer	No specific data.
	Herculase II Fusion DNA Polymerase	No specific data.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	No specific data.
Ingestion	: 10X End Repair Buffer	No specific data.
	5X T4 DNA Ligase Buffer	No specific data.
	10x Klenow Polymerase Buffer	No specific data.
	T4 DNA Ligase	No specific data.
	Exo(-) Klenow	No specific data.
	T4 DNA Polymerase	No specific data.
	Klenow DNA Polymerase	No specific data.
	T4 Polynucleotide Kinase	No specific data.
	dATP	No specific data.
	SureSelect PCR Primer Mix	No specific data.
	100 mM dNTP Mix (25 mM each dNTP)	No specific data.
	5X Herculase II Reaction Buffer	No specific data.
	Herculase II Fusion DNA Polymerase	No specific data.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	No specific data.
Skin contact	: 10X End Repair Buffer	No specific data.
	5X T4 DNA Ligase Buffer	No specific data.
	10x Klenow Polymerase Buffer	No specific data.
	T4 DNA Ligase	No specific data.
	Exo(-) Klenow	No specific data.
	T4 DNA Polymerase	No specific data.
	Klenow DNA Polymerase	No specific data.
	T4 Polynucleotide Kinase	No specific data.
	dATP	No specific data.
	SureSelect PCR Primer Mix	No specific data.
	100 mM dNTP Mix (25 mM each dNTP)	No specific data.
	5X Herculase II Reaction Buffer	No specific data.
	Herculase II Fusion DNA Polymerase	No specific data.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	No specific data.
Eye contact	: 10X End Repair Buffer	No specific data.
	5X T4 DNA Ligase Buffer	Adverse symptoms may include the following: pain or irritation watering redness
	10x Klenow Polymerase Buffer	No specific data.
	T4 DNA Ligase	No specific data.
	Exo(-) Klenow	No specific data.
	T4 DNA Polymerase	No specific data.
	Klenow DNA Polymerase	No specific data.
	T4 Polynucleotide Kinase	No specific data.

SECTION 11: Toxicological information

dATP	No specific data.
SureSelect PCR Primer Mix	No specific data.
100 mM dNTP Mix (25 mM each dNTP)	No specific data.
5X Herculase II Reaction Buffer	No specific data.
Herculase II Fusion DNA Polymerase	No specific data.
SureSelect Pre-capture Indexed Adaptor Set A01-H12	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	: 10X End Repair Buffer	No known significant effects or critical hazards.
	5X T4 DNA Ligase Buffer	No known significant effects or critical hazards.
	10x Klenow Polymerase Buffer	No known significant effects or critical hazards.
	T4 DNA Ligase	No known significant effects or critical hazards.
	Exo(-) Klenow	No known significant effects or critical hazards.
	T4 DNA Polymerase	No known significant effects or critical hazards.
	Klenow DNA Polymerase	No known significant effects or critical hazards.
	T4 Polynucleotide Kinase	No known significant effects or critical hazards.
	dATP	No known significant effects or critical hazards.
	SureSelect PCR Primer Mix	No known significant effects or critical hazards.
	100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
	5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
	Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	No known significant effects or critical hazards.
Carcinogenicity	: 10X End Repair Buffer	No known significant effects or critical hazards.
	5X T4 DNA Ligase Buffer	No known significant effects or critical hazards.
	10x Klenow Polymerase Buffer	No known significant effects or critical hazards.
	T4 DNA Ligase	No known significant effects or critical hazards.
	Exo(-) Klenow	No known significant effects or critical hazards.
	T4 DNA Polymerase	No known significant effects or critical hazards.
	Klenow DNA Polymerase	No known significant effects or critical hazards.
	T4 Polynucleotide Kinase	No known significant effects or critical hazards.
	dATP	No known significant effects or critical hazards.
	SureSelect PCR Primer Mix	No known significant effects or critical hazards.
	100 mM dNTP Mix (25	No known significant effects or critical hazards.

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	mM each dNTP)	
	5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
	Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	No known significant effects or critical hazards.
Mutagenicity	: 10X End Repair Buffer	No known significant effects or critical hazards.
	5X T4 DNA Ligase Buffer	No known significant effects or critical hazards.
	10x Klenow Polymerase Buffer	No known significant effects or critical hazards.
	T4 DNA Ligase	No known significant effects or critical hazards.
	Exo(-) Klenow	No known significant effects or critical hazards.
	T4 DNA Polymerase	No known significant effects or critical hazards.
	Klenow DNA Polymerase	No known significant effects or critical hazards.
	T4 Polynucleotide Kinase	No known significant effects or critical hazards.
	dATP	No known significant effects or critical hazards.
	SureSelect PCR Primer Mix	No known significant effects or critical hazards.
	100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
	5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
	Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	No known significant effects or critical hazards.
Teratogenicity	: 10X End Repair Buffer	No known significant effects or critical hazards.
	5X T4 DNA Ligase Buffer	No known significant effects or critical hazards.
	10x Klenow Polymerase Buffer	No known significant effects or critical hazards.
	T4 DNA Ligase	No known significant effects or critical hazards.
	Exo(-) Klenow	No known significant effects or critical hazards.
	T4 DNA Polymerase	No known significant effects or critical hazards.
	Klenow DNA Polymerase	No known significant effects or critical hazards.
	T4 Polynucleotide Kinase	No known significant effects or critical hazards.
	dATP	No known significant effects or critical hazards.
	SureSelect PCR Primer Mix	No known significant effects or critical hazards.
	100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
	5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
	Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	No known significant effects or critical hazards.
Developmental effects	: 10X End Repair Buffer	No known significant effects or critical hazards.
	5X T4 DNA Ligase Buffer	No known significant effects or critical hazards.
	10x Klenow Polymerase Buffer	No known significant effects or critical hazards.
	T4 DNA Ligase	No known significant effects or critical hazards.
	Exo(-) Klenow	No known significant effects or critical hazards.
	T4 DNA Polymerase	No known significant effects or critical hazards.
	Klenow DNA Polymerase	No known significant effects or critical hazards.
	T4 Polynucleotide Kinase	No known significant effects or critical hazards.
	dATP	No known significant effects or critical hazards.
	SureSelect PCR Primer	No known significant effects or critical hazards.

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	Mix	
	100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
	5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
	Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	No known significant effects or critical hazards.
Fertility effects	: 10X End Repair Buffer	No known significant effects or critical hazards.
	5X T4 DNA Ligase Buffer	No known significant effects or critical hazards.
	10x Klenow Polymerase Buffer	No known significant effects or critical hazards.
	T4 DNA Ligase	No known significant effects or critical hazards.
	Exo(-) Klenow	No known significant effects or critical hazards.
	T4 DNA Polymerase	No known significant effects or critical hazards.
	Klenow DNA Polymerase	No known significant effects or critical hazards.
	T4 Polynucleotide Kinase	No known significant effects or critical hazards.
	dATP	No known significant effects or critical hazards.
	SureSelect PCR Primer Mix	No known significant effects or critical hazards.
	100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
	5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
	Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	No known significant effects or critical hazards.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
10X End Repair Buffer (R*,R*)-1, 4-Dimercaptobutane-2,3-diol	Acute LC50 27000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
5X Herculase II Reaction Buffer Trometamol	Acute EC50 >980 mg/l Fresh water Acute NOEC 520 mg/l Fresh water	Daphnia Daphnia	48 hours 48 hours

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
5X Herculase II Reaction Buffer Trometamol	-1.56	-	low

12.4 Mobility in soil

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SECTION 12: Ecological information

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

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

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

Hazardous waste : 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 : This material and its container must be disposed of in a safe way. 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 : Not regulated.

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 Annex II of Marpol and the IBC Code : Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

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

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

SECTION 15: Regulatory information

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: 10X End Repair Buffer	Not applicable.
	5X T4 DNA Ligase Buffer	Not applicable.
	10x Klenow Polymerase Buffer	Not applicable.
	T4 DNA Ligase	Not applicable.
	Exo(-) Klenow	Not applicable.
	T4 DNA Polymerase	Not applicable.
	Klenow DNA Polymerase	Not applicable.
	T4 Polynucleotide Kinase	Not applicable.
	dATP	Not applicable.
	SureSelect PCR Primer Mix	Not applicable.
	100 mM dNTP Mix (25 mM each dNTP)	Not applicable.
	5X Hercules II Reaction Buffer	Not applicable.
	Hercules II Fusion DNA Polymerase	Not applicable.
	SureSelect Pre-capture Indexed Adaptor Set A01-H12	Not applicable.

Other EU regulations

Ozone depleting substances (1005/2009/EU)

Not listed.

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

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

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

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia	: Not determined.
Canada	: Not determined.
China	: Not determined.
Europe	: Not determined.
Japan	: Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined.
Malaysia	: Not determined.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: All components are listed or exempted.

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SECTION 15: Regulatory information

Thailand	: Not determined.
Turkey	: Not determined.
United States	: Not determined.
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]
 DNEL = Derived No Effect Level
 EUH statement = CLP-specific Hazard statement
 PNEC = Predicted No Effect Concentration
 RRN = REACH Registration Number

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

Classification	Justification
5X T4 DNA Ligase Buffer Eye Irrit. 2, H319	Expert judgment

Full text of abbreviated H statements

10X End Repair Buffer H302 H315 H319 H335 H412 5X T4 DNA Ligase Buffer H315 H319 H335 10x Klenow Polymerase Buffer H315 H319 H335 5X Herculase II Reaction Buffer H315 H319 H335	Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. Harmful to aquatic life with long lasting effects. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.
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Full text of classifications [CLP/GHS]

10X End Repair Buffer Acute Tox. 4, H302 Aquatic Chronic 3, H412 Eye Irrit. 2, H319 Skin Irrit. 2, H315 STOT SE 3, H335 5X T4 DNA Ligase Buffer Eye Irrit. 2, H319 Skin Irrit. 2, H315 STOT SE 3, H335	ACUTE TOXICITY (oral) - Category 4 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE
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SECTION 16: Other information

10x Klenow Polymerase Buffer Eye Irrit. 2, H319 Skin Irrit. 2, H315 STOT SE 3, H335	(Respiratory tract irritation) - Category 3 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3
5X Herculase II Reaction Buffer Eye Irrit. 2, H319 Skin Irrit. 2, H315 STOT SE 3, H335	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3

Date of issue/ Date of revision : 17/11/2017

Date of previous issue : No previous validation

Version : 1

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