

SAFETY DATA SHEET

SureSelect XT Reagent Kit - HSQ/MSQ-96/480 Reactions - Revised Index Configuration

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

1.1 Product identifier

Product name	: SureSelect XT Reagent Kit - HSQ/MSQ-96/480 Reactions - Revised Index Configuration	
Part no. (chemical kit)	: G9611B, G9611C, G9612B, G9612C	
Part no.	:	
	10X End Repair Buffer	5190-3609
	5X T4 DNA Ligase Buffer	5190-3610
	Klenow DNA Polymerase	5190-3615
	T4 DNA Ligase	5190-3612
	T4 DNA Polymerase	5190-3614
	T4 Polynucleotide Kinase	5190-3616
	dNTP Mix	5190-3618
	10x Klenow Polymerase Buffer	5190-3611
	Exo(-) Klenow	5190-3613
	dATP	5190-3617
	SureSelect Adaptor Oligo Mix	5190-3619
	SureSelect Primer	5190-3620
	SureSelect Hyb 1	5190-4404
	SureSelect Hyb 2	5190-4397
	SureSelect Hyb 4	5190-4406
	SureSelect Binding Buffer	5190-4407
	SureSelect Wash Buffer 1	5190-4408
	SureSelect Wash Buffer 2	5190-4409
	SureSelect RNase Block	5190-4386
	SureSelect ILM Indexing Post Capture	5190-4442
	Forward PCR Primer	
	SureSelect Hyb 3	5190-4385
	SureSelect Block 2	5190-4384
	SureSelect Indexing Block 1	5190-4428
	SureSelect Indexing Block 3	5190-4446
	SureSelect ILM Index Pre Capture PCR	5190-4444
	Reverse Primer	
	SureSelect XT 8 bp Indexes	5190-7928

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

Identified uses	:	Analytical reagent.
	10X End Repair Buffer	1.4 ml -7.0 ml
	5X T4 DNA Ligase Buffer	1.4 ml -7.0 ml
	Klenow DNA Polymerase	0.29 ml -1.45 ml
	T4 DNA Ligase	0.21 ml -1.1 ml
	T4 DNA Polymerase	0.14 ml -0.7 ml
	T4 Polynucleotide Kinase	0.3 ml -1.5 ml
	dNTP Mix	0.23 ml -1.15 ml
	10x Klenow Polymerase Buffer	0.8 ml - 4 ml
	Exo(-) Klenow	0.49 ml - 2.45 ml
	dATP	0.16 ml - 0.8 ml
	SureSelect Adaptor Oligo Mix	1.2 ml - 6 ml
	SureSelect Primer	0.3 ml - 1.5 ml
	SureSelect Hyb 1	2.4 ml - 12 ml
	SureSelect Hyb 2	1.25 ml- 6.25 m
	SureSelect Hyb 4	1.25 ml - 6.25 ml
	SureSelect Binding Buffer	80 ml - 384 ml
	SureSelect Wash Buffer 1	48 ml - 240 ml
	SureSelect Wash Buffer 2	144 ml - 720 ml
	SureSelect RNase Block	0.096 ml - 0.48 ml
	SureSelect ILM Indexing Post Capture	0.27 ml - 1.35 ml
	Forward PCR Primer	
	SureSelect Hyb 3	0.96 ml - 4.8 ml

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SureSelect Block 2	0.24 ml - 1.2 ml
SureSelect Indexing Block 1	0.24 ml - 1.2 ml
SureSelect Indexing Block 3	0.058 ml - 0.29 ml
SureSelect ILM Index Pre Capture PCR	0.027 ml - 1.35 ml
Reverse Primer	
SureSelect XT 8 bp Indexes	1.44 ml (0.015 ml x 96 reactions)

Uses advised against : None known.

1.3 Details of the supplier of the safety data sheet

Agilent Technologies Deutschland GmbH
 Hewlett-Packard-Str. 8
 76337 Waldbronn
 Germany
 0800 603 1000

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

1.4 Emergency telephone number

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition	:	10X End Repair Buffer	Mixture
		5X T4 DNA Ligase Buffer	Mixture
		Klenow DNA Polymerase	Mixture
		T4 DNA Ligase	Mixture
		T4 DNA Polymerase	Mixture
		T4 Polynucleotide Kinase	Mixture
		dNTP Mix	Mixture
		10x Klenow Polymerase	Mixture
		Buffer	
		Exo(-) Klenow	Mixture
		dATP	Mixture
		SureSelect Adaptor	Mixture
		Oligo Mix	
		SureSelect Primer	Mixture
		SureSelect Hyb 1	Mixture
		SureSelect Hyb 2	Mixture
		SureSelect Hyb 4	Mixture
		SureSelect Binding	Mixture
		Buffer	
		SureSelect Wash Buffer	Mixture
		1	
		SureSelect Wash Buffer	Mixture
		2	
		SureSelect RNase Block	Mixture
		SureSelect ILM Indexing	Mixture
		Post Capture Forward	
		PCR Primer	
		SureSelect Hyb 3	Mixture
		SureSelect Block 2	Mixture
		SureSelect Indexing	Mixture
		Block 1	
		SureSelect Indexing	Mixture
		Block 3	
		SureSelect ILM Index	Mixture

SECTION 2: Hazards identification

Pre Capture PCR
Reverse Primer
SureSelect XT 8 bp Mixture
Indexes

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

SureSelect Hyb 2

H319	SERIOUS EYE DAMAGE/EYE IRRITATION	Category 2
H373	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE	Category 2

10X End Repair Buffer	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
5X T4 DNA Ligase Buffer	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
Klenow DNA Polymerase	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
T4 DNA Ligase	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
T4 DNA Polymerase	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
T4 Polynucleotide Kinase	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
dNTP Mix	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
10x Klenow Polymerase Buffer	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
Exo(-) Klenow	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
dATP	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
SureSelect Adaptor Oligo Mix	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
SureSelect Primer	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
SureSelect Hyb 1	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
SureSelect Hyb 2	The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.
SureSelect Hyb 4	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
SureSelect Binding Buffer	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
SureSelect Wash Buffer 1	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
SureSelect Wash Buffer 2	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
SureSelect RNase Block	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
SureSelect ILM Indexing Post Capture Forward PCR Primer	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
SureSelect Hyb 3	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
SureSelect Block 2	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
SureSelect Indexing Block 1	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
SureSelect Indexing Block 3	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
SureSelect ILM Index Pre Capture PCR Reverse Primer	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
SureSelect XT 8 bp Indexes	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

SECTION 2: Hazards identification

Ingredients of unknown toxicity	: 10X End Repair Buffer	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10%
	5X T4 DNA Ligase Buffer	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 10 - 30%
	Klenow DNA Polymerase	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10%
	T4 DNA Ligase	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%
	T4 DNA Polymerase	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10%
	T4 Polynucleotide Kinase	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%
	dNTP Mix	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10%
	10x Klenow Polymerase Buffer	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%
	Exo(-) Klenow	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%
	SureSelect Hyb 1	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 10 - 30%
	SureSelect Hyb 2	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 10 - 30%
	SureSelect Binding Buffer	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%
	SureSelect RNase Block	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%
	SureSelect Hyb 3	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10%
	SureSelect Indexing Block 1	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%
	SureSelect Indexing Block 1	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%
	SureSelect Indexing Block 1	Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 1 - 10%
Ingredients of unknown ecotoxicity	: 10X End Repair Buffer	Contains 1.4% of components with unknown hazards to the aquatic environment
	5X T4 DNA Ligase Buffer	Contains 1% of components with unknown hazards to the aquatic environment
	Klenow DNA Polymerase	Contains 2% of components with unknown hazards to the aquatic environment
	T4 DNA Polymerase	Contains 2% of components with unknown hazards to the aquatic environment
	dNTP Mix	Contains 6% of components with unknown hazards to the aquatic environment
	10x Klenow Polymerase	Contains 1.4% of components with unknown hazards to the aquatic environment

SECTION 2: Hazards identification

Buffer	aquatic environment
SureSelect Hyb 3	Contains 3% of components with unknown hazards to the aquatic environment
SureSelect Indexing Block 1	Contains 2% of components with unknown hazards to the aquatic environment

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 : SureSelect Hyb 2



Signal word

10X End Repair Buffer	No signal word.
5X T4 DNA Ligase Buffer	No signal word.
Klenow DNA Polymerase	No signal word.
T4 DNA Ligase	No signal word.
T4 DNA Polymerase	No signal word.
T4 Polynucleotide Kinase	No signal word.
dNTP Mix	No signal word.
10x Klenow Polymerase Buffer	No signal word.
Exo(-) Klenow dATP	No signal word.
SureSelect Adaptor Oligo Mix	No signal word.
SureSelect Primer	No signal word.
SureSelect Hyb 1	No signal word.
SureSelect Hyb 2	Warning
SureSelect Hyb 4	No signal word.
SureSelect Binding Buffer	No signal word.
SureSelect Wash Buffer 1	No signal word.
SureSelect Wash Buffer 2	No signal word.
SureSelect RNase Block	No signal word.
SureSelect ILM Indexing Post Capture Forward PCR Primer	No signal word.
SureSelect Hyb 3	No signal word.
SureSelect Block 2	No signal word.
SureSelect Indexing Block 1	No signal word.
SureSelect Indexing Block 3	No signal word.
SureSelect ILM Index Pre Capture PCR Reverse Primer	No signal word.
SureSelect XT 8 bp Indexes	No signal word.

Hazard statements

10X End Repair Buffer	No known significant effects or critical hazards.
5X T4 DNA Ligase Buffer	No known significant effects or critical hazards.
Klenow DNA Polymerase	No known significant effects or critical hazards.
T4 DNA Ligase	No known significant effects or critical hazards.
T4 DNA Polymerase	No known significant effects or critical hazards.
T4 Polynucleotide Kinase	No known significant effects or critical hazards.
dNTP Mix	No known significant effects or critical hazards.
10x Klenow Polymerase Buffer	No known significant effects or critical hazards.

SECTION 2: Hazards identification

Exo(-) Klenow	No known significant effects or critical hazards.
dATP	No known significant effects or critical hazards.
SureSelect Adaptor	No known significant effects or critical hazards.
Oligo Mix	
SureSelect Primer	No known significant effects or critical hazards.
SureSelect Hyb 1	No known significant effects or critical hazards.
SureSelect Hyb 2	H319 - Causes serious eye irritation. H373 - May cause damage to organs through prolonged or repeated exposure.
SureSelect Hyb 4	No known significant effects or critical hazards.
SureSelect Binding Buffer	No known significant effects or critical hazards.
SureSelect Wash Buffer 1	No known significant effects or critical hazards.
SureSelect Wash Buffer 2	No known significant effects or critical hazards.
SureSelect RNase Block	No known significant effects or critical hazards.
SureSelect ILM Indexing Post Capture Forward PCR Primer	No known significant effects or critical hazards.
SureSelect Hyb 3	No known significant effects or critical hazards.
SureSelect Block 2	No known significant effects or critical hazards.
SureSelect Indexing Block 1	No known significant effects or critical hazards.
SureSelect Indexing Block 3	No known significant effects or critical hazards.
SureSelect ILM Index Pre Capture PCR Reverse Primer	No known significant effects or critical hazards.
SureSelect XT 8 bp Indexes	No known significant effects or critical hazards.

Precautionary statements

Prevention

: 10X End Repair Buffer	Not applicable.
5X T4 DNA Ligase Buffer	Not applicable.
Klenow DNA Polymerase	Not applicable.
T4 DNA Ligase	Not applicable.
T4 DNA Polymerase	Not applicable.
T4 Polynucleotide Kinase	Not applicable.
dNTP Mix	Not applicable.
10x Klenow Polymerase Buffer	Not applicable.
Exo(-) Klenow	Not applicable.
dATP	Not applicable.
SureSelect Adaptor	Not applicable.
Oligo Mix	
SureSelect Primer	Not applicable.
SureSelect Hyb 1	Not applicable.
SureSelect Hyb 2	P280 - Wear eye or face protection. P260 - Do not breathe vapour.
SureSelect Hyb 4	Not applicable.
SureSelect Binding Buffer	Not applicable.
SureSelect Wash Buffer 1	Not applicable.
SureSelect Wash Buffer 2	Not applicable.
SureSelect RNase Block	Not applicable.
SureSelect ILM Indexing Post Capture Forward PCR Primer	Not applicable.
SureSelect Hyb 3	Not applicable.
SureSelect Block 2	Not applicable.
SureSelect Indexing	Not applicable.

SECTION 2: Hazards identification

	Block 1	
	SureSelect Indexing	Not applicable.
	Block 3	
	SureSelect ILM Index	Not applicable.
	Pre Capture PCR	
	Reverse Primer	
	SureSelect XT 8 bp	Not applicable.
	Indexes	
Response	:	10X End Repair Buffer Not applicable.
		5X T4 DNA Ligase Buffer Not applicable.
		Klenow DNA Polymerase Not applicable.
		T4 DNA Ligase Not applicable.
		T4 DNA Polymerase Not applicable.
		T4 Polynucleotide Kinase Not applicable.
		dNTP Mix Not applicable.
		10x Klenow Polymerase Not applicable.
		Buffer
		Exo(-) Klenow Not applicable.
		dATP Not applicable.
		SureSelect Adaptor Not applicable.
		Oligo Mix
		SureSelect Primer Not applicable.
		SureSelect Hyb 1 Not applicable.
		SureSelect Hyb 2 P314 - Get medical advice/attention if you feel unwell. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.
		SureSelect Hyb 4 Not applicable.
		SureSelect Binding Not applicable.
		Buffer
		SureSelect Wash Buffer Not applicable.
		1
		SureSelect Wash Buffer Not applicable.
		2
		SureSelect RNase Block Not applicable.
		SureSelect ILM Indexing Not applicable.
		Post Capture Forward
		PCR Primer
		SureSelect Hyb 3 Not applicable.
		SureSelect Block 2 Not applicable.
		SureSelect Indexing Not applicable.
		Block 1
		SureSelect Indexing Not applicable.
		Block 3
		SureSelect ILM Index Not applicable.
		Pre Capture PCR
		Reverse Primer
		SureSelect XT 8 bp Not applicable.
		Indexes
Storage	:	10X End Repair Buffer Not applicable.
		5X T4 DNA Ligase Buffer Not applicable.
		Klenow DNA Polymerase Not applicable.
		T4 DNA Ligase Not applicable.
		T4 DNA Polymerase Not applicable.
		T4 Polynucleotide Kinase Not applicable.
		dNTP Mix Not applicable.
		10x Klenow Polymerase Not applicable.
		Buffer
		Exo(-) Klenow Not applicable.
		dATP Not applicable.
		SureSelect Adaptor Not applicable.

SECTION 2: Hazards identification

Oligo Mix	
SureSelect Primer	Not applicable.
SureSelect Hyb 1	Not applicable.
SureSelect Hyb 2	Not applicable.
SureSelect Hyb 4	Not applicable.
SureSelect Binding Buffer	Not applicable.
SureSelect Wash Buffer 1	Not applicable.
SureSelect Wash Buffer 2	Not applicable.
SureSelect RNase Block	Not applicable.
SureSelect ILM Indexing	Not applicable.
Post Capture Forward PCR Primer	
SureSelect Hyb 3	Not applicable.
SureSelect Block 2	Not applicable.
SureSelect Indexing Block 1	Not applicable.
SureSelect Indexing Block 3	Not applicable.
SureSelect ILM Index Pre Capture PCR	Not applicable.
Reverse Primer	
SureSelect XT 8 bp Indexes	Not applicable.

Disposal

:	10X End Repair Buffer	Not applicable.
	5X T4 DNA Ligase Buffer	Not applicable.
	Klenow DNA Polymerase	Not applicable.
	T4 DNA Ligase	Not applicable.
	T4 DNA Polymerase	Not applicable.
	T4 Polynucleotide Kinase	Not applicable.
	dNTP Mix	Not applicable.
	10x Klenow Polymerase Buffer	Not applicable.
	Exo(-) Klenow dATP	Not applicable.
	SureSelect Adaptor Oligo Mix	Not applicable.
	SureSelect Primer	Not applicable.
	SureSelect Hyb 1	Not applicable.
	SureSelect Hyb 2	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
	SureSelect Hyb 4	Not applicable.
	SureSelect Binding Buffer	Not applicable.
	SureSelect Wash Buffer 1	Not applicable.
	SureSelect Wash Buffer 2	Not applicable.
	SureSelect RNase Block	Not applicable.
	SureSelect ILM Indexing	Not applicable.
	Post Capture Forward PCR Primer	
	SureSelect Hyb 3	Not applicable.
	SureSelect Block 2	Not applicable.
	SureSelect Indexing Block 1	Not applicable.
	SureSelect Indexing Block 3	Not applicable.
	SureSelect ILM Index Pre Capture PCR	Not applicable.
	Reverse Primer	

SECTION 2: Hazards identification

	SureSelect XT 8 bp Indexes	Not applicable.
Hazardous ingredients	: SureSelect Hyb 2	edetic acid
Supplemental label elements	: 10X End Repair Buffer	Safety data sheet available on request.
	5X T4 DNA Ligase Buffer	Not applicable.
	Klenow DNA Polymerase	Not applicable.
	T4 DNA Ligase	Not applicable.
	T4 DNA Polymerase	Not applicable.
	T4 Polynucleotide Kinase	Not applicable.
	dNTP Mix	Not applicable.
	10x Klenow Polymerase Buffer	Not applicable.
	Exo(-) Klenow dATP	Not applicable.
	SureSelect Adaptor Oligo Mix	Not applicable.
	SureSelect Primer	Not applicable.
	SureSelect Hyb 1	Safety data sheet available on request.
	SureSelect Hyb 2	Not applicable.
	SureSelect Hyb 4	Not applicable.
	SureSelect Binding Buffer	Not applicable.
	SureSelect Wash Buffer 1	Not applicable.
	SureSelect Wash Buffer 2	Not applicable.
	SureSelect RNase Block	Not applicable.
	SureSelect ILM Indexing Post Capture Forward PCR Primer	Not applicable.
	SureSelect Hyb 3	Not applicable.
	SureSelect Block 2	Not applicable.
	SureSelect Indexing Block 1	Not applicable.
	SureSelect Indexing Block 3	Not applicable.
	SureSelect ILM Index Pre Capture PCR Reverse Primer	Not applicable.
	SureSelect XT 8 bp Indexes	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.
	Klenow DNA Polymerase	Not applicable.
	T4 DNA Ligase	Not applicable.
	T4 DNA Polymerase	Not applicable.
	T4 Polynucleotide Kinase	Not applicable.
	dNTP Mix	Not applicable.
	10x Klenow Polymerase Buffer	Not applicable.
	Exo(-) Klenow dATP	Not applicable.
	SureSelect Adaptor Oligo Mix	Not applicable.
	SureSelect Primer	Not applicable.
	SureSelect Hyb 1	Not applicable.
	SureSelect Hyb 2	Not applicable.
	SureSelect Hyb 4	Not applicable.
	SureSelect Binding Buffer	Not applicable.
	SureSelect Wash Buffer 1	Not applicable.

SECTION 2: Hazards identification

SureSelect Wash Buffer 2	Not applicable.
SureSelect RNase Block	Not applicable.
SureSelect ILM Indexing Post Capture Forward PCR Primer	Not applicable.
SureSelect Hyb 3	Not applicable.
SureSelect Block 2	Not applicable.
SureSelect Indexing Block 1	Not applicable.
SureSelect Indexing Block 3	Not applicable.
SureSelect ILM Index Pre Capture PCR Reverse Primer	Not applicable.
SureSelect XT 8 bp Indexes	Not applicable.

Special packaging requirements

Tactile warning of danger	:	10X End Repair Buffer	Not applicable.
		5X T4 DNA Ligase Buffer	Not applicable.
		Klenow DNA Polymerase	Not applicable.
		T4 DNA Ligase	Not applicable.
		T4 DNA Polymerase	Not applicable.
		T4 Polynucleotide Kinase	Not applicable.
		dNTP Mix	Not applicable.
		10x Klenow Polymerase Buffer	Not applicable.
		Exo(-) Klenow dATP	Not applicable.
		SureSelect Adaptor Oligo Mix	Not applicable.
		SureSelect Primer	Not applicable.
		SureSelect Hyb 1	Not applicable.
		SureSelect Hyb 2	Not applicable.
		SureSelect Hyb 4	Not applicable.
		SureSelect Binding Buffer	Not applicable.
		SureSelect Wash Buffer 1	Not applicable.
		SureSelect Wash Buffer 2	Not applicable.
		SureSelect RNase Block	Not applicable.
		SureSelect ILM Indexing Post Capture Forward PCR Primer	Not applicable.
		SureSelect Hyb 3	Not applicable.
		SureSelect Block 2	Not applicable.
		SureSelect Indexing Block 1	Not applicable.
		SureSelect Indexing Block 3	Not applicable.
		SureSelect ILM Index Pre Capture PCR Reverse Primer	Not applicable.
		SureSelect XT 8 bp Indexes	Not applicable.

2.3 Other hazards

SECTION 2: Hazards identification

<p>Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII</p>	: 10X End Repair Buffer	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	5X T4 DNA Ligase Buffer	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	Klenow DNA Polymerase	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	T4 DNA Ligase	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	T4 DNA Polymerase	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	T4 Polynucleotide Kinase	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	dNTP Mix	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	10x Klenow Polymerase Buffer	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	Exo(-) Klenow	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	dATP	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	SureSelect Adaptor Oligo Mix	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	SureSelect Primer	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	SureSelect Hyb 1	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	SureSelect Hyb 2	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	SureSelect Hyb 4	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	SureSelect Binding Buffer	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	SureSelect Wash Buffer 1	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	SureSelect Wash Buffer 2	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	SureSelect RNase Block	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	SureSelect ILM Indexing Post Capture Forward PCR Primer	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	SureSelect Hyb 3	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	SureSelect Block 2	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	SureSelect Indexing Block 1	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	SureSelect Indexing Block 3	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	SureSelect ILM Index Pre Capture PCR Reverse Primer	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	SureSelect XT 8 bp Indexes	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	<p>Other hazards which do not result in classification</p>	: 10X End Repair Buffer
5X T4 DNA Ligase Buffer		None known.
Klenow DNA Polymerase		None known.
T4 DNA Ligase		None known.
T4 DNA Polymerase		None known.
T4 Polynucleotide Kinase		None known.
dNTP Mix		None known.
10x Klenow Polymerase Buffer		None known.

SECTION 2: Hazards identification

Exo(-) Klenow	None known.
dATP	None known.
SureSelect Adaptor	None known.
Oligo Mix	
SureSelect Primer	None known.
SureSelect Hyb 1	None known.
SureSelect Hyb 2	None known.
SureSelect Hyb 4	None known.
SureSelect Binding	None known.
Buffer	
SureSelect Wash Buffer 1	None known.
SureSelect Wash Buffer 2	None known.
SureSelect RNase Block	None known.
SureSelect ILM Indexing	None known.
Post Capture Forward	
PCR Primer	
SureSelect Hyb 3	None known.
SureSelect Block 2	None known.
SureSelect Indexing	None known.
Block 1	
SureSelect Indexing	None known.
Block 3	
SureSelect ILM Index	None known.
Pre Capture PCR	
Reverse Primer	
SureSelect XT 8 bp	None known.
Indexes	

SECTION 3: Composition/information on ingredients

3.1 Substances	:	10X End Repair Buffer	Mixture
		5X T4 DNA Ligase Buffer	Mixture
		Klenow DNA Polymerase	Mixture
		T4 DNA Ligase	Mixture
		T4 DNA Polymerase	Mixture
		T4 Polynucleotide Kinase	Mixture
		dNTP Mix	Mixture
		10x Klenow Polymerase Buffer	Mixture
		Exo(-) Klenow	Mixture
		dATP	Mixture
		SureSelect Adaptor Oligo Mix	Mixture
		SureSelect Primer	Mixture
		SureSelect Hyb 1	Mixture
		SureSelect Hyb 2	Mixture
		SureSelect Hyb 4	Mixture
		SureSelect Binding Buffer	Mixture
		SureSelect Wash Buffer 1	Mixture
		SureSelect Wash Buffer 2	Mixture
		SureSelect RNase Block	Mixture
		SureSelect ILM Indexing Post	Mixture
		Capture Forward PCR Primer	
		SureSelect Hyb 3	Mixture
		SureSelect Block 2	Mixture
		SureSelect Indexing Block 1	Mixture
		SureSelect Indexing Block 3	Mixture
		SureSelect ILM Index Pre Capture	Mixture
		PCR Reverse Primer	
		SureSelect XT 8 bp Indexes	Mixture

SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
10X End Repair Buffer (R*,R*) -1,4-dimercaptobutane-2,3-diol	EC: 222-468-7 CAS: 3483-12-3	≤3	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 3, H412	ATE [Oral] = 500 mg/kg	[1]
Klenow DNA Polymerase glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	-	[1]
T4 DNA Ligase glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	-	[1]
T4 DNA Polymerase glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	-	[1]
T4 Polynucleotide Kinase glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	-	[1]
Exo(-) Klenow glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	-	[1]
SureSelect Hyb 1 sodium dihydrogenorthophosphate	EC: 231-449-2 CAS: 7558-80-7	≤3	Eye Irrit. 2, H319	-	[1]
SureSelect Hyb 2 edetic acid	EC: 200-449-4 CAS: 60-00-4	≥10 - ≤25	Acute Tox. 4, H332 Eye Irrit. 2, H319 STOT RE 2, H373 (respiratory tract) (inhalation)	ATE [Inhalation (dusts and mists)] = 1.5 mg/l	[1]
SureSelect RNase Block					

SureSelect XT Reagent Kit - HSQ/MSQ-96/480 Reactions - Revised Index Configuration

SECTION 3: Composition/information on ingredients

glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	-	[1]
SureSelect Indexing Block 1					
glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified. See Section 16 for the full text of the H statements declared above.	-	[1]

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

<u>Type</u>	
10X End Repair Buffer	[1] Substance classified with a health or environmental hazard
Klenow DNA Polymerase	[1] Substance with a workplace exposure limit
T4 DNA Ligase	[1] Substance with a workplace exposure limit
T4 DNA Polymerase	[1] Substance with a workplace exposure limit
T4 Polynucleotide Kinase	[1] Substance with a workplace exposure limit
Exo(-) Klenow	[1] Substance with a workplace exposure limit
SureSelect Hyb 1	[1] Substance classified with a health or environmental hazard
SureSelect Hyb 2	[1] Substance classified with a health or environmental hazard
SureSelect RNase Block	[1] Substance with a workplace exposure limit
SureSelect Indexing Block 1	[1] Substance with a workplace exposure limit

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

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. 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 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.
	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.
	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.
	dNTP Mix	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	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.
	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.
	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.

SECTION 4: First aid measures

SureSelect Adaptor Oligo 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.
SureSelect Primer	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 Hyb 1	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 Hyb 2	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.
SureSelect Hyb 4	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 Binding 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.
SureSelect Wash Buffer 1	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 Wash Buffer 2	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 RNase Block	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 ILM Indexing Post Capture Forward PCR Primer	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 Hyb 3	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 Block 2	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 Indexing Block 1	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 Indexing Block 3	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 ILM Index Pre Capture PCR Reverse Primer	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 XT 8 bp Indexes	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.
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. 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.
Klenow DNA Polymerase	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

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T4 DNA Ligase	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.
T4 Polynucleotide Kinase	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
dNTP Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
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.
Exo(-) Klenow	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
dATP	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureSelect Adaptor Oligo Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureSelect Primer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureSelect Hyb 1	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureSelect Hyb 2	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 following exposure or if feeling unwell. 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.
SureSelect Hyb 4	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureSelect Binding Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureSelect Wash Buffer 1	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureSelect Wash Buffer 2	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureSelect RNase Block	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

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SureSelect ILM Indexing Post Capture Forward PCR Primer SureSelect Hyb 3	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. 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.
SureSelect Block 2	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.
SureSelect Indexing Block 1	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureSelect Indexing Block 3	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureSelect ILM Index Pre Capture PCR Reverse Primer SureSelect XT 8 bp Indexes	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

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.
Klenow DNA Polymerase	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.
T4 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.
dNTP Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
10x Klenow Polymerase Buffer	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.
dATP	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect Adaptor Oligo Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect Primer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect Hyb 1	Flush contaminated skin with plenty of water. Remove

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	contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect Hyb 2	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. Wash clothing before reuse. Clean shoes thoroughly before reuse.
SureSelect Hyb 4	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect Binding Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect Wash Buffer 1	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect Wash Buffer 2	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect RNase Block	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect ILM Indexing Post Capture Forward PCR Primer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect Hyb 3	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect Block 2	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect Indexing Block 1	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect Indexing Block 3	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect ILM Index Pre Capture PCR Reverse Primer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect XT 8 bp Indexes	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. 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. 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.
Klenow DNA Polymerase	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
T4 DNA Ligase	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
T4 DNA Polymerase	Wash out mouth with water. If material has been swallowed

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	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.
T4 Polynucleotide Kinase	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
dNTP Mix	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
10x Klenow Polymerase Buffer	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Exo(-) Klenow	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
dATP	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
SureSelect Adaptor Oligo Mix	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
SureSelect Primer	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
SureSelect Hyb 1	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
SureSelect Hyb 2	Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention following exposure or if feeling unwell. 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.
SureSelect Hyb 4	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
SureSelect Binding Buffer	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to

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	do so by medical personnel. Get medical attention if symptoms occur.
SureSelect Wash Buffer 1	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
SureSelect Wash Buffer 2	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
SureSelect RNase Block	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
SureSelect ILM Indexing Post Capture Forward PCR Primer	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
SureSelect Hyb 3	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
SureSelect Block 2	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
SureSelect Indexing Block 1	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
SureSelect Indexing Block 3	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
SureSelect ILM Index Pre Capture PCR Reverse Primer	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
SureSelect XT 8 bp Indexes	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Protection of first-aiders : 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.
Klenow DNA Polymerase	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.
T4 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.

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dNTP Mix	No action shall be taken involving any personal risk or without suitable training.
10x Klenow Polymerase Buffer	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.
dATP	No action shall be taken involving any personal risk or without suitable training.
SureSelect Adaptor Oligo Mix	No action shall be taken involving any personal risk or without suitable training.
SureSelect Primer	No action shall be taken involving any personal risk or without suitable training.
SureSelect Hyb 1	No action shall be taken involving any personal risk or without suitable training.
SureSelect Hyb 2	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.
SureSelect Hyb 4	No action shall be taken involving any personal risk or without suitable training.
SureSelect Binding Buffer	No action shall be taken involving any personal risk or without suitable training.
SureSelect Wash Buffer 1	No action shall be taken involving any personal risk or without suitable training.
SureSelect Wash Buffer 2	No action shall be taken involving any personal risk or without suitable training.
SureSelect RNase Block	No action shall be taken involving any personal risk or without suitable training.
SureSelect ILM Indexing Post Capture Forward PCR Primer	No action shall be taken involving any personal risk or without suitable training.
SureSelect Hyb 3	No action shall be taken involving any personal risk or without suitable training.
SureSelect Block 2	No action shall be taken involving any personal risk or without suitable training.
SureSelect Indexing Block 1	No action shall be taken involving any personal risk or without suitable training.
SureSelect Indexing Block 3	No action shall be taken involving any personal risk or without suitable training.
SureSelect ILM Index Pre Capture PCR Reverse Primer	No action shall be taken involving any personal risk or without suitable training.
SureSelect XT 8 bp Indexes	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	No known significant effects or critical hazards.
		Klenow DNA Polymerase	No known significant effects or critical hazards.
		T4 DNA Ligase	No known significant effects or critical hazards.
		T4 DNA Polymerase	No known significant effects or critical hazards.
		T4 Polynucleotide Kinase	No known significant effects or critical hazards.
		dNTP Mix	No known significant effects or critical hazards.
		10x Klenow Polymerase Buffer	No known significant effects or critical hazards.
		Exo(-) Klenow	No known significant effects or critical hazards.
		dATP	No known significant effects or critical hazards.
		SureSelect Adaptor Oligo Mix	No known significant effects or critical hazards.
		SureSelect Primer	No known significant effects or critical hazards.
		SureSelect Hyb 1	No known significant effects or critical hazards.
		SureSelect Hyb 2	Causes serious eye irritation.
		SureSelect Hyb 4	No known significant effects or critical hazards.

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SureSelect Binding Buffer	No known significant effects or critical hazards.
SureSelect Wash Buffer 1	No known significant effects or critical hazards.
SureSelect Wash Buffer 2	No known significant effects or critical hazards.
SureSelect RNase Block	No known significant effects or critical hazards.
SureSelect ILM Indexing Post Capture Forward PCR Primer	No known significant effects or critical hazards.
SureSelect Hyb 3	No known significant effects or critical hazards.
SureSelect Block 2	No known significant effects or critical hazards.
SureSelect Indexing Block 1	No known significant effects or critical hazards.
SureSelect Indexing Block 3	No known significant effects or critical hazards.
SureSelect ILM Index Pre Capture PCR Reverse Primer	No known significant effects or critical hazards.
SureSelect XT 8 bp Indexes	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.
Klenow DNA Polymerase	No known significant effects or critical hazards.
T4 DNA Ligase	No known significant effects or critical hazards.
T4 DNA Polymerase	No known significant effects or critical hazards.
T4 Polynucleotide Kinase	No known significant effects or critical hazards.
dNTP Mix	No known significant effects or critical hazards.
10x Klenow Polymerase Buffer	No known significant effects or critical hazards.
Exo(-) Klenow dATP	No known significant effects or critical hazards.
SureSelect Adaptor Oligo Mix	No known significant effects or critical hazards.
SureSelect Primer	No known significant effects or critical hazards.
SureSelect Hyb 1	No known significant effects or critical hazards.
SureSelect Hyb 2	No known significant effects or critical hazards.
SureSelect Hyb 4	No known significant effects or critical hazards.
SureSelect Binding Buffer	No known significant effects or critical hazards.
SureSelect Wash Buffer 1	No known significant effects or critical hazards.
SureSelect Wash Buffer 2	No known significant effects or critical hazards.
SureSelect RNase Block	No known significant effects or critical hazards.
SureSelect ILM Indexing Post Capture Forward PCR Primer	No known significant effects or critical hazards.
SureSelect Hyb 3	No known significant effects or critical hazards.
SureSelect Block 2	No known significant effects or critical hazards.
SureSelect Indexing Block 1	No known significant effects or critical hazards.
SureSelect Indexing Block 3	No known significant effects or critical hazards.
SureSelect ILM Index Pre Capture PCR Reverse Primer	No known significant effects or critical hazards.
SureSelect XT 8 bp Indexes	No known significant effects or critical hazards.

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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.
		Klenow DNA Polymerase	No known significant effects or critical hazards.
		T4 DNA Ligase	No known significant effects or critical hazards.
		T4 DNA Polymerase	No known significant effects or critical hazards.
		T4 Polynucleotide Kinase	No known significant effects or critical hazards.
		dNTP Mix	No known significant effects or critical hazards.
		10x Klenow Polymerase Buffer	No known significant effects or critical hazards.
		Exo(-) Klenow	No known significant effects or critical hazards.
		dATP	No known significant effects or critical hazards.
		SureSelect Adaptor	No known significant effects or critical hazards.
		Oligo Mix	
		SureSelect Primer	No known significant effects or critical hazards.
		SureSelect Hyb 1	No known significant effects or critical hazards.
		SureSelect Hyb 2	No known significant effects or critical hazards.
		SureSelect Hyb 4	No known significant effects or critical hazards.
		SureSelect Binding Buffer	No known significant effects or critical hazards.
		SureSelect Wash Buffer 1	No known significant effects or critical hazards.
		SureSelect Wash Buffer 2	No known significant effects or critical hazards.
		SureSelect RNase Block	No known significant effects or critical hazards.
		SureSelect ILM Indexing Post Capture Forward PCR Primer	No known significant effects or critical hazards.
		SureSelect Hyb 3	No known significant effects or critical hazards.
		SureSelect Block 2	No known significant effects or critical hazards.
		SureSelect Indexing Block 1	No known significant effects or critical hazards.
		SureSelect Indexing Block 3	No known significant effects or critical hazards.
		SureSelect ILM Index Pre Capture PCR Reverse Primer	No known significant effects or critical hazards.
		SureSelect XT 8 bp Indexes	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.
		Klenow DNA Polymerase	No known significant effects or critical hazards.
		T4 DNA Ligase	No known significant effects or critical hazards.
		T4 DNA Polymerase	No known significant effects or critical hazards.
		T4 Polynucleotide Kinase	No known significant effects or critical hazards.
		dNTP Mix	No known significant effects or critical hazards.
		10x Klenow Polymerase Buffer	No known significant effects or critical hazards.
		Exo(-) Klenow	No known significant effects or critical hazards.
		dATP	No known significant effects or critical hazards.
		SureSelect Adaptor	No known significant effects or critical hazards.
		Oligo Mix	
		SureSelect Primer	No known significant effects or critical hazards.
		SureSelect Hyb 1	No known significant effects or critical hazards.
		SureSelect Hyb 2	No known significant effects or critical hazards.
		SureSelect Hyb 4	No known significant effects or critical hazards.
		SureSelect Binding Buffer	No known significant effects or critical hazards.
		SureSelect Wash Buffer 1	No known significant effects or critical hazards.
		SureSelect Wash Buffer 2	No known significant effects or critical hazards.
		SureSelect RNase Block	No known significant effects or critical hazards.
		SureSelect ILM Indexing Post Capture Forward	No known significant effects or critical hazards.

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PCR Primer	
SureSelect Hyb 3	No known significant effects or critical hazards.
SureSelect Block 2	No known significant effects or critical hazards.
SureSelect Indexing Block 1	No known significant effects or critical hazards.
SureSelect Indexing Block 3	No known significant effects or critical hazards.
SureSelect ILM Index Pre Capture PCR	No known significant effects or critical hazards.
Reverse Primer	
SureSelect XT 8 bp Indexes	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	No specific data.
Klenow DNA Polymerase	No specific data.
T4 DNA Ligase	No specific data.
T4 DNA Polymerase	No specific data.
T4 Polynucleotide Kinase	No specific data.
dNTP Mix	No specific data.
10x Klenow Polymerase Buffer	No specific data.
Exo(-) Klenow	No specific data.
dATP	No specific data.
SureSelect Adaptor	No specific data.
Oligo Mix	
SureSelect Primer	No specific data.
SureSelect Hyb 1	No specific data.
SureSelect Hyb 2	Adverse symptoms may include the following: pain or irritation watering redness
SureSelect Hyb 4	No specific data.
SureSelect Binding Buffer	No specific data.
SureSelect Wash Buffer 1	No specific data.
SureSelect Wash Buffer 2	No specific data.
SureSelect RNase Block	No specific data.
SureSelect ILM Indexing	No specific data.
Post Capture Forward PCR Primer	
SureSelect Hyb 3	No specific data.
SureSelect Block 2	No specific data.
SureSelect Indexing Block 1	No specific data.
SureSelect Indexing Block 3	No specific data.
SureSelect ILM Index Pre Capture PCR	No specific data.
Reverse Primer	
SureSelect XT 8 bp Indexes	No specific data.

Inhalation

: 10X End Repair Buffer	No specific data.
5X T4 DNA Ligase Buffer	No specific data.
Klenow DNA Polymerase	No specific data.
T4 DNA Ligase	No specific data.
T4 DNA Polymerase	No specific data.
T4 Polynucleotide Kinase	No specific data.
dNTP Mix	No specific data.
10x Klenow Polymerase Buffer	No specific data.

SECTION 4: First aid measures

Exo(-) Klenow	No specific data.
dATP	No specific data.
SureSelect Adaptor	No specific data.
Oligo Mix	
SureSelect Primer	No specific data.
SureSelect Hyb 1	No specific data.
SureSelect Hyb 2	No specific data.
SureSelect Hyb 4	No specific data.
SureSelect Binding	No specific data.
Buffer	
SureSelect Wash Buffer	No specific data.
1	
SureSelect Wash Buffer	No specific data.
2	
SureSelect RNase Block	No specific data.
SureSelect ILM Indexing	No specific data.
Post Capture Forward	
PCR Primer	
SureSelect Hyb 3	No specific data.
SureSelect Block 2	No specific data.
SureSelect Indexing	No specific data.
Block 1	
SureSelect Indexing	No specific data.
Block 3	
SureSelect ILM Index	No specific data.
Pre Capture PCR	
Reverse Primer	
SureSelect XT 8 bp	No specific data.
Indexes	
10X End Repair Buffer	No specific data.
5X T4 DNA Ligase Buffer	No specific data.
Klenow DNA Polymerase	No specific data.
T4 DNA Ligase	No specific data.
T4 DNA Polymerase	No specific data.
T4 Polynucleotide Kinase	No specific data.
dNTP Mix	No specific data.
10x Klenow Polymerase	No specific data.
Buffer	
Exo(-) Klenow	No specific data.
dATP	No specific data.
SureSelect Adaptor	No specific data.
Oligo Mix	
SureSelect Primer	No specific data.
SureSelect Hyb 1	No specific data.
SureSelect Hyb 2	No specific data.
SureSelect Hyb 4	No specific data.
SureSelect Binding	No specific data.
Buffer	
SureSelect Wash Buffer	No specific data.
1	
SureSelect Wash Buffer	No specific data.
2	
SureSelect RNase Block	No specific data.
SureSelect ILM Indexing	No specific data.
Post Capture Forward	
PCR Primer	
SureSelect Hyb 3	No specific data.
SureSelect Block 2	No specific data.
SureSelect Indexing	No specific data.
Block 1	
SureSelect Indexing	No specific data.
Block 3	
SureSelect ILM Index	No specific data.
Pre Capture PCR	

Skin contact

:	10X End Repair Buffer	No specific data.
:	5X T4 DNA Ligase Buffer	No specific data.
:	Klenow DNA Polymerase	No specific data.
:	T4 DNA Ligase	No specific data.
:	T4 DNA Polymerase	No specific data.
:	T4 Polynucleotide Kinase	No specific data.
:	dNTP Mix	No specific data.
:	10x Klenow Polymerase	No specific data.
:	Buffer	
:	Exo(-) Klenow	No specific data.
:	dATP	No specific data.
:	SureSelect Adaptor	No specific data.
:	Oligo Mix	
:	SureSelect Primer	No specific data.
:	SureSelect Hyb 1	No specific data.
:	SureSelect Hyb 2	No specific data.
:	SureSelect Hyb 4	No specific data.
:	SureSelect Binding	No specific data.
:	Buffer	
:	SureSelect Wash Buffer	No specific data.
:	1	
:	SureSelect Wash Buffer	No specific data.
:	2	
:	SureSelect RNase Block	No specific data.
:	SureSelect ILM Indexing	No specific data.
:	Post Capture Forward	
:	PCR Primer	
:	SureSelect Hyb 3	No specific data.
:	SureSelect Block 2	No specific data.
:	SureSelect Indexing	No specific data.
:	Block 1	
:	SureSelect Indexing	No specific data.
:	Block 3	
:	SureSelect ILM Index	No specific data.
:	Pre Capture PCR	

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	Reverse Primer	
	SureSelect XT 8 bp	No specific data.
	Indexes	
Ingestion	: 10X End Repair Buffer	No specific data.
	5X T4 DNA Ligase Buffer	No specific data.
	Klenow DNA Polymerase	No specific data.
	T4 DNA Ligase	No specific data.
	T4 DNA Polymerase	No specific data.
	T4 Polynucleotide Kinase	No specific data.
	dNTP Mix	No specific data.
	10x Klenow Polymerase	No specific data.
	Buffer	
	Exo(-) Klenow	No specific data.
	dATP	No specific data.
	SureSelect Adaptor	No specific data.
	Oligo Mix	
	SureSelect Primer	No specific data.
	SureSelect Hyb 1	No specific data.
	SureSelect Hyb 2	No specific data.
	SureSelect Hyb 4	No specific data.
	SureSelect Binding	No specific data.
	Buffer	
	SureSelect Wash Buffer	No specific data.
	1	
	SureSelect Wash Buffer	No specific data.
	2	
	SureSelect RNase Block	No specific data.
	SureSelect ILM Indexing	No specific data.
	Post Capture Forward	
	PCR Primer	
	SureSelect Hyb 3	No specific data.
	SureSelect Block 2	No specific data.
	SureSelect Indexing	No specific data.
	Block 1	
	SureSelect Indexing	No specific data.
	Block 3	
	SureSelect ILM Index	No specific data.
	Pre Capture PCR	
	Reverse Primer	
	SureSelect XT 8 bp	No specific data.
	Indexes	

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.
	Klenow DNA Polymerase	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	T4 DNA Ligase	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.
	T4 Polynucleotide Kinase	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	dNTP Mix	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	10x Klenow Polymerase	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.
	Buffer	

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Exo(-) Klenow	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
dATP	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
SureSelect Adaptor	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Oligo Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
SureSelect Primer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
SureSelect Hyb 1	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
SureSelect Hyb 2	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.
SureSelect Hyb 4	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
SureSelect Binding Buffer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
SureSelect Wash Buffer 1	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
SureSelect Wash Buffer 2	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
SureSelect RNase Block	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
SureSelect ILM Indexing Post Capture Forward PCR Primer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
SureSelect Hyb 3	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.
SureSelect Block 2	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.
SureSelect Indexing Block 1	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
SureSelect Indexing Block 3	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
SureSelect ILM Index Pre Capture PCR Reverse Primer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
SureSelect XT 8 bp Indexes	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.
Klenow DNA Polymerase	No specific treatment.
T4 DNA Ligase	No specific treatment.
T4 DNA Polymerase	No specific treatment.
T4 Polynucleotide Kinase	No specific treatment.
dNTP Mix	No specific treatment.
10x Klenow Polymerase Buffer	No specific treatment.
Exo(-) Klenow	No specific treatment.
dATP	No specific treatment.
SureSelect Adaptor	No specific treatment.
Oligo Mix	No specific treatment.
SureSelect Primer	No specific treatment.
SureSelect Hyb 1	No specific treatment.
SureSelect Hyb 2	No specific treatment.
SureSelect Hyb 4	No specific treatment.
SureSelect Binding Buffer	No specific treatment.
SureSelect Wash Buffer 1	No specific treatment.
SureSelect Wash Buffer 2	No specific treatment.

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SureSelect RNase Block	No specific treatment.
SureSelect ILM Indexing	No specific treatment.
Post Capture Forward PCR Primer	
SureSelect Hyb 3	No specific treatment.
SureSelect Block 2	No specific treatment.
SureSelect Indexing Block 1	No specific treatment.
SureSelect Indexing Block 3	No specific treatment.
SureSelect ILM Index Pre Capture PCR Reverse Primer	
SureSelect XT 8 bp Indexes	No specific treatment.

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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.
Klenow DNA Polymerase	Use an extinguishing agent suitable for the surrounding fire.
T4 DNA Ligase	Use an extinguishing agent suitable for the surrounding fire.
T4 DNA Polymerase	Use an extinguishing agent suitable for the surrounding fire.
T4 Polynucleotide Kinase	Use an extinguishing agent suitable for the surrounding fire.
dNTP Mix	Use an extinguishing agent suitable for the surrounding fire.
10x Klenow Polymerase Buffer	Use an extinguishing agent suitable for the surrounding fire.
Exo(-) Klenow dATP	Use an extinguishing agent suitable for the surrounding fire.
SureSelect Adaptor Oligo Mix	Use an extinguishing agent suitable for the surrounding fire.
SureSelect Primer	Use an extinguishing agent suitable for the surrounding fire.
SureSelect Hyb 1	Use an extinguishing agent suitable for the surrounding fire.
SureSelect Hyb 2	Use an extinguishing agent suitable for the surrounding fire.
SureSelect Hyb 4	Use an extinguishing agent suitable for the surrounding fire.
SureSelect Binding Buffer	Use an extinguishing agent suitable for the surrounding fire.
SureSelect Wash Buffer 1	Use an extinguishing agent suitable for the surrounding fire.
SureSelect Wash Buffer 2	Use an extinguishing agent suitable for the surrounding fire.
SureSelect RNase Block	Use an extinguishing agent suitable for the surrounding fire.
SureSelect ILM Indexing	Use an extinguishing agent suitable for the surrounding fire.
Post Capture Forward PCR Primer	
SureSelect Hyb 3	Use an extinguishing agent suitable for the surrounding fire.
SureSelect Block 2	Use an extinguishing agent suitable for the surrounding fire.
SureSelect Indexing Block 1	Use an extinguishing agent suitable for the surrounding fire.
SureSelect Indexing Block 3	Use an extinguishing agent suitable for the surrounding fire.
SureSelect ILM Index Pre Capture PCR Reverse Primer	
SureSelect XT 8 bp Indexes	Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media

: 10X End Repair Buffer	None known.
5X T4 DNA Ligase Buffer	None known.
Klenow DNA Polymerase	None known.
T4 DNA Ligase	None known.
T4 DNA Polymerase	None known.
T4 Polynucleotide Kinase	None known.
dNTP Mix	None known.

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10x Klenow Polymerase Buffer	None known.
Exo(-) Klenow dATP	None known.
SureSelect Adaptor Oligo Mix	None known.
SureSelect Primer	None known.
SureSelect Hyb 1	None known.
SureSelect Hyb 2	None known.
SureSelect Hyb 4	None known.
SureSelect Binding Buffer	None known.
SureSelect Wash Buffer 1	None known.
SureSelect Wash Buffer 2	None known.
SureSelect RNase Block	None known.
SureSelect ILM Indexing Post Capture Forward PCR Primer	None known.
SureSelect Hyb 3	None known.
SureSelect Block 2	None known.
SureSelect Indexing Block 1	None known.
SureSelect Indexing Block 3	None known.
SureSelect ILM Index Pre Capture PCR Reverse Primer	None known.
SureSelect XT 8 bp Indexes	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.
Klenow DNA Polymerase	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.
T4 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.
dNTP Mix	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.
Exo(-) Klenow	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 Adaptor Oligo Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect Primer	In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect Hyb 1	In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect Hyb 2	In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect Hyb 4	In a fire or if heated, a pressure increase will occur and the container may burst.

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SureSelect Binding Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect Wash Buffer 1	In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect Wash Buffer 2	In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect RNase Block	In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect ILM Indexing Post Capture Forward PCR Primer	In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect Hyb 3	In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect Block 2	In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect Indexing Block 1	In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect Indexing Block 3	In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect ILM Index Pre Capture PCR Reverse Primer	In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect XT 8 bp Indexes	In a fire or if heated, a pressure increase will occur and the container may burst.
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
Klenow DNA Polymerase	Decomposition products may include the following materials: carbon dioxide carbon monoxide
T4 DNA Ligase	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
T4 Polynucleotide Kinase	Decomposition products may include the following materials: carbon dioxide carbon monoxide
dNTP Mix	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides
10x Klenow Polymerase Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides
Exo(-) Klenow	Decomposition products may include the following materials: carbon dioxide carbon monoxide

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dATP	No specific data.
SureSelect Adaptor	No specific data.
Oligo Mix	
SureSelect Primer	No specific data.
SureSelect Hyb 1	Decomposition products may include the following materials: phosphorus oxides halogenated compounds metal oxide/oxides
SureSelect Hyb 2	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
SureSelect Hyb 4	No specific data.
SureSelect Binding Buffer	Decomposition products may include the following materials: halogenated compounds metal oxide/oxides
SureSelect Wash Buffer 1	No specific data.
SureSelect Wash Buffer 2	No specific data.
SureSelect RNase Block	Decomposition products may include the following materials: carbon dioxide carbon monoxide
SureSelect ILM Indexing Post Capture Forward PCR Primer	No specific data.
SureSelect Hyb 3	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides halogenated compounds carbonyl halides
SureSelect Block 2	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides
SureSelect Indexing Block 1	Decomposition products may include the following materials: carbon dioxide carbon monoxide
SureSelect Indexing Block 3	No specific data.
SureSelect ILM Index Pre Capture PCR Reverse Primer	No specific data.
SureSelect XT 8 bp Indexes	No specific data.

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.
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 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

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T4 DNA Polymerase	taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
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.
dNTP Mix	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
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.
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.
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 Adaptor Oligo 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.
SureSelect Primer	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 Hyb 1	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 Hyb 2	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 Hyb 4	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 Binding 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.
SureSelect Wash Buffer 1	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 Wash Buffer 2	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 RNase Block	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 ILM Indexing Post Capture Forward PCR Primer	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 Hyb 3	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 Block 2	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 Indexing Block 1	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 Indexing Block 3	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 ILM Index Pre Capture PCR Reverse Primer	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.

SECTION 5: Firefighting measures**Special protective equipment for fire-fighters**

SureSelect XT 8 bp Indexes	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 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.
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 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.
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.
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.
dNTP Mix	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
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.
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.
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 Adaptor	Fire-fighters should wear appropriate protective equipment

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Oligo Mix	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 Primer	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 Hyb 1	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 Hyb 2	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 Hyb 4	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 Binding 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.
SureSelect Wash Buffer 1	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 Wash Buffer 2	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 RNase Block	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 ILM Indexing Post Capture Forward PCR Primer	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 Hyb 3	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

SECTION 5: Firefighting measures

SureSelect Block 2	basic level of protection for chemical incidents. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
SureSelect Indexing Block 1	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 Indexing Block 3	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 ILM Index Pre Capture PCR Reverse Primer	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 XT 8 bp Indexes	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: 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. 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 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.
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.
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

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dNTP Mix	appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
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.
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.
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 Adaptor Oligo 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.
SureSelect Primer	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 Hyb 1	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 Hyb 2	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.
SureSelect Hyb 4	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 Binding 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.
SureSelect Wash Buffer 1	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 Wash Buffer 2	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 RNase Block	No action shall be taken involving any personal risk or

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		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 ILM Indexing Post Capture Forward PCR Primer	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 Hyb 3	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 Block 2	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 Indexing Block 1	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 Indexing Block 3	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 ILM Index Pre Capture PCR Reverse Primer	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 XT 8 bp Indexes	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".
	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 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".
	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".
	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".

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dNTP Mix	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
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".
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".
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 Adaptor Oligo 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".
SureSelect Primer	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 Hyb 1	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 Hyb 2	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 Hyb 4	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 Binding 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".
SureSelect Wash Buffer 1	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 Wash Buffer 2	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 RNase Block	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 ILM Indexing Post Capture Forward PCR Primer	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 Hyb 3	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 Block 2	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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SureSelect Indexing Block 1	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 Indexing Block 3	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 ILM Index Pre Capture PCR Reverse Primer	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 XT 8 bp Indexes	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).
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 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).
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).
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).
dNTP Mix	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
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).
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).
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 Adaptor Oligo 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).
SureSelect Primer	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant

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	authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect Hyb 1	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 Hyb 2	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 Hyb 4	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 Binding 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).
SureSelect Wash Buffer 1	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 Wash Buffer 2	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 RNase Block	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 ILM Indexing Post Capture Forward PCR Primer	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 Hyb 3	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 Block 2	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 Indexing Block 1	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 Indexing Block 3	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 ILM Index Pre Capture PCR Reverse Primer	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 XT 8 bp Indexes	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

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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.
	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 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.
	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.
	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.
	dNTP Mix	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	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.
	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.
	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 Adaptor Oligo 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.
	SureSelect Primer	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 Hyb 1	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

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SureSelect Hyb 2	of via a licensed waste disposal contractor. Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
SureSelect Hyb 4	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 Binding 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.
SureSelect Wash Buffer 1	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 Wash Buffer 2	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 RNase Block	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 ILM Indexing Post Capture Forward PCR Primer	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 Hyb 3	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 Block 2	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 Indexing Block 1	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 Indexing Block 3	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 ILM Index Pre Capture PCR Reverse Primer	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 XT 8 bp Indexes	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

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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).
	Klenow DNA Polymerase	Put on appropriate personal protective equipment (see Section 8).
	T4 DNA Ligase	Put on appropriate personal protective equipment (see Section 8).
	T4 DNA Polymerase	Put on appropriate personal protective equipment (see Section 8).
	T4 Polynucleotide Kinase	Put on appropriate personal protective equipment (see Section 8).
	dNTP Mix	Put on appropriate personal protective equipment (see Section 8).
	10x Klenow Polymerase Buffer	Put on appropriate personal protective equipment (see Section 8).
	Exo(-) Klenow	Put on appropriate personal protective equipment (see Section 8).
	dATP	Put on appropriate personal protective equipment (see Section 8).
	SureSelect Adaptor Oligo Mix	Put on appropriate personal protective equipment (see Section 8).
	SureSelect Primer	Put on appropriate personal protective equipment (see Section 8).
	SureSelect Hyb 1	Put on appropriate personal protective equipment (see Section 8).
	SureSelect Hyb 2	Put on appropriate personal protective equipment (see Section 8). Do not breathe vapour or mist. Do not ingest. Avoid contact with eyes, skin and clothing. 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.
	SureSelect Hyb 4	Put on appropriate personal protective equipment (see Section 8).
	SureSelect Binding Buffer	Put on appropriate personal protective equipment (see Section 8).
	SureSelect Wash Buffer 1	Put on appropriate personal protective equipment (see Section 8).
	SureSelect Wash Buffer 2	Put on appropriate personal protective equipment (see Section 8).
	SureSelect RNase Block	Put on appropriate personal protective equipment (see Section 8).
	SureSelect ILM Indexing Post Capture Forward PCR Primer	Put on appropriate personal protective equipment (see Section 8).
	SureSelect Hyb 3	Put on appropriate personal protective equipment (see Section 8).
	SureSelect Block 2	Put on appropriate personal protective equipment (see Section 8).
	SureSelect Indexing Block 1	Put on appropriate personal protective equipment (see Section 8).
	SureSelect Indexing	Put on appropriate personal protective equipment (see Section 8).

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Advice on general occupational hygiene

Block 3	Section 8).
SureSelect ILM Index	Put on appropriate personal protective equipment (see Section 8).
Pre Capture PCR	Section 8).
Reverse Primer	
SureSelect XT 8 bp Indexes	Put on appropriate personal protective equipment (see Section 8).
: 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.
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 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.
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.
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.
dNTP Mix	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
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.
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.
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

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SureSelect Adaptor Oligo Mix	<p>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.</p>
SureSelect Primer	<p>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</p>
SureSelect Hyb 1	<p>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</p>
SureSelect Hyb 2	<p>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</p>
SureSelect Hyb 4	<p>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</p>
SureSelect Binding Buffer	<p>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</p>
SureSelect Wash Buffer 1	<p>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</p>
SureSelect Wash Buffer 2	<p>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</p>
SureSelect RNase Block	<p>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</p>
SureSelect ILM Indexing Post Capture Forward PCR Primer	<p>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</p>
SureSelect Hyb 3	<p>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.</p>

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SureSelect Block 2	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.
SureSelect Indexing Block 1	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.
SureSelect Indexing Block 3	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.
SureSelect ILM Index Pre Capture PCR Reverse Primer	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.
SureSelect XT 8 bp Indexes	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.

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.
Klenow 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

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	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 appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
T4 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.
T4 Polynucleotide Kinase	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
dNTP Mix	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
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.
Exo(-) Klenow	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.
dATP	Store in accordance with local regulations. Store in original

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	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 Adaptor Oligo Mix	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
SureSelect Primer	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 Hyb 1	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 Hyb 2	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 Hyb 4	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 Binding 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

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	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 Wash Buffer 1	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 Wash Buffer 2	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 RNase Block	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 ILM Indexing Post Capture Forward PCR Primer	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 Hyb 3	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 Block 2	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

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SureSelect Indexing Block 1	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.
SureSelect Indexing Block 3	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 ILM Index Pre Capture PCR Reverse Primer	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 XT 8 bp Indexes	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.
Klenow DNA Polymerase	Industrial applications, Professional applications.
T4 DNA Ligase	Industrial applications, Professional applications.
T4 DNA Polymerase	Industrial applications, Professional applications.
T4 Polynucleotide Kinase	Industrial applications, Professional applications.
dNTP Mix	Industrial applications, Professional applications.
10x Klenow Polymerase Buffer	Industrial applications, Professional applications.
Exo(-) Klenow	Industrial applications, Professional applications.
dATP	Industrial applications, Professional applications.
SureSelect Adaptor	Industrial applications, Professional applications.
Oligo Mix	
SureSelect Primer	Industrial applications, Professional applications.
SureSelect Hyb 1	Industrial applications, Professional applications.
SureSelect Hyb 2	Industrial applications, Professional applications.
SureSelect Hyb 4	Industrial applications, Professional applications.
SureSelect Binding Buffer	Industrial applications, Professional applications.

SECTION 7: Handling and storage

SureSelect Wash Buffer 1	Industrial applications, Professional applications.
SureSelect Wash Buffer 2	Industrial applications, Professional applications.
SureSelect RNase Block	Industrial applications, Professional applications.
SureSelect ILM Indexing Post Capture Forward PCR Primer	Industrial applications, Professional applications.
SureSelect Hyb 3	Industrial applications, Professional applications.
SureSelect Block 2	Industrial applications, Professional applications.
SureSelect Indexing Block 1	Industrial applications, Professional applications.
SureSelect Indexing Block 3	Industrial applications, Professional applications.
SureSelect ILM Index Pre Capture PCR Reverse Primer	Industrial applications, Professional applications.
SureSelect XT 8 bp Indexes	Industrial applications, Professional applications.

Industrial sector specific solutions

: 10X End Repair Buffer	Not available.
5X T4 DNA Ligase Buffer	Not available.
Klenow DNA Polymerase	Not available.
T4 DNA Ligase	Not available.
T4 DNA Polymerase	Not available.
T4 Polynucleotide Kinase	Not available.
dNTP Mix	Not available.
10x Klenow Polymerase Buffer	Not available.
Exo(-) Klenow dATP	Not available.
SureSelect Adaptor Oligo Mix	Not available.
SureSelect Primer	Not available.
SureSelect Hyb 1	Not available.
SureSelect Hyb 2	Not available.
SureSelect Hyb 4	Not available.
SureSelect Binding Buffer	Not available.
SureSelect Wash Buffer 1	Not available.
SureSelect Wash Buffer 2	Not available.
SureSelect RNase Block	Not available.
SureSelect ILM Indexing Post Capture Forward PCR Primer	Not available.
SureSelect Hyb 3	Not available.
SureSelect Block 2	Not available.
SureSelect Indexing Block 1	Not available.
SureSelect Indexing Block 3	Not available.
SureSelect ILM Index Pre Capture PCR Reverse Primer	Not available.
SureSelect XT 8 bp Indexes	Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
Klenow DNA Polymerase Glycerol	NAOSH (Ireland, 5/2021). Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV: 10 mg/m ³ 8 hours. Form: mist
T4 DNA Ligase Glycerol	NAOSH (Ireland, 5/2021). Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV: 10 mg/m ³ 8 hours. Form: mist
T4 DNA Polymerase Glycerol	NAOSH (Ireland, 5/2021). Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV: 10 mg/m ³ 8 hours. Form: mist
T4 Polynucleotide Kinase Glycerol	NAOSH (Ireland, 5/2021). Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV: 10 mg/m ³ 8 hours. Form: mist
Exo(-) Klenow Glycerol	NAOSH (Ireland, 5/2021). Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV: 10 mg/m ³ 8 hours. Form: mist
SureSelect RNase Block Glycerol	NAOSH (Ireland, 5/2021). Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV: 10 mg/m ³ 8 hours. Form: mist
SureSelect Indexing Block 1 Glycerol	NAOSH (Ireland, 5/2021). Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV: 10 mg/m ³ 8 hours. Form: mist

Biological exposure indices

No exposure indices known.

Recommended monitoring procedures

: Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Type	Exposure	Value	Population	Effects
SureSelect Hyb 1 Sodium dihydrogenorthophosphate	DNEL	Long term Inhalation	3.04 mg/m ³	General population Workers	Systemic
	DNEL	Long term Inhalation	4.07 mg/m ³		Systemic
SureSelect Hyb 2 Edetic acid	DNEL	Long term	0.6 mg/m ³	General	Local

SECTION 8: Exposure controls/personal protection

	DNEL	Inhalation Short term	1.2 mg/m ³	population General	Local
	DNEL	Inhalation Long term	1.5 mg/m ³	population Workers	Local
	DNEL	Inhalation Long term	1.5 mg/m ³	Workers	Systemic
	DNEL	Inhalation Short term	3 mg/m ³	Workers	Local
	DNEL	Inhalation Short term	3 mg/m ³	Workers	Systemic
	DNEL	Inhalation Long term Oral	25 mg/kg bw/day	General population	Systemic

PNECs

No PNECs available

8.2 Exposure controls

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

Individual protection measures

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

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

Skin protection

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

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

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

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

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

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

Appearance

SECTION 9: Physical and chemical properties

Physical state	:	10X End Repair Buffer	Liquid.	
		5X T4 DNA Ligase Buffer	Liquid.	
		Klenow DNA Polymerase	Liquid.	
		T4 DNA Ligase	Liquid.	
		T4 DNA Polymerase	Liquid.	
		T4 Polynucleotide Kinase	Liquid.	
		dNTP Mix	Liquid.	
		10x Klenow Polymerase Buffer	Liquid.	
		Exo(-) Klenow	Liquid.	
		dATP	Liquid.	
		SureSelect Adaptor	Liquid.	
		Oligo Mix		
		SureSelect Primer	Liquid.	
		SureSelect Hyb 1	Liquid.	
		SureSelect Hyb 2	Liquid.	
		SureSelect Hyb 4	Liquid.	
		SureSelect Binding Buffer	Liquid.	
		SureSelect Wash Buffer 1	Liquid.	
		SureSelect Wash Buffer 2	Liquid.	
		SureSelect RNase Block	Liquid.	
		SureSelect ILM Indexing Post Capture Forward PCR Primer	Liquid.	
		SureSelect Hyb 3	Liquid.	
		SureSelect Block 2	Liquid.	
		SureSelect Indexing Block 1	Liquid.	
		SureSelect Indexing Block 3	Liquid.	
		SureSelect ILM Index Pre Capture PCR Reverse Primer	Liquid.	
		SureSelect XT 8 bp Indexes	Liquid.	
	Colour	:	10X End Repair Buffer	Not available.
			5X T4 DNA Ligase Buffer	Not available.
			Klenow DNA Polymerase	Not available.
			T4 DNA Ligase	Not available.
			T4 DNA Polymerase	Not available.
			T4 Polynucleotide Kinase	Not available.
		dNTP Mix	Not available.	
		10x Klenow Polymerase Buffer	Not available.	
		Exo(-) Klenow	Not available.	
		dATP	Not available.	
		SureSelect Adaptor	Not available.	
		Oligo Mix		
		SureSelect Primer	Not available.	
		SureSelect Hyb 1	Not available.	
		SureSelect Hyb 2	Not available.	
		SureSelect Hyb 4	Not available.	
		SureSelect Binding Buffer	Not available.	
		SureSelect Wash Buffer 1	Not available.	
		SureSelect Wash Buffer 2	Not available.	
		SureSelect RNase Block	Not available.	
		SureSelect ILM Indexing Post Capture Forward	Not available.	

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	PCR Primer	
	SureSelect Hyb 3	Not available.
	SureSelect Block 2	Colourless.
	SureSelect Indexing Block 1	Not available.
	SureSelect Indexing Block 3	Not available.
	SureSelect ILM Index Pre Capture PCR Reverse Primer	Not available.
	SureSelect XT 8 bp Indexes	Not available.
Odour	: 10X End Repair Buffer	Not available.
	5X T4 DNA Ligase Buffer	Not available.
	Klenow DNA Polymerase	Not available.
	T4 DNA Ligase	Not available.
	T4 DNA Polymerase	Not available.
	T4 Polynucleotide Kinase	Not available.
	dNTP Mix	Not available.
	10x Klenow Polymerase Buffer	Not available.
	Exo(-) Klenow	Not available.
	dATP	Not available.
	SureSelect Adaptor Oligo Mix	Not available.
	SureSelect Primer	Not available.
	SureSelect Hyb 1	Not available.
	SureSelect Hyb 2	Not available.
	SureSelect Hyb 4	Not available.
	SureSelect Binding Buffer	Not available.
	SureSelect Wash Buffer 1	Not available.
	SureSelect Wash Buffer 2	Not available.
	SureSelect RNase Block	Not available.
	SureSelect ILM Indexing Post Capture Forward PCR Primer	Not available.
	SureSelect Hyb 3	Not available.
	SureSelect Block 2	Odourless.
	SureSelect Indexing Block 1	Not available.
	SureSelect Indexing Block 3	Not available.
	SureSelect ILM Index Pre Capture PCR Reverse Primer	Not available.
	SureSelect XT 8 bp Indexes	Not available.
Odour threshold	: 10X End Repair Buffer	Not available.
	5X T4 DNA Ligase Buffer	Not available.
	Klenow DNA Polymerase	Not available.
	T4 DNA Ligase	Not available.
	T4 DNA Polymerase	Not available.
	T4 Polynucleotide Kinase	Not available.
	dNTP Mix	Not available.
	10x Klenow Polymerase Buffer	Not available.
	Exo(-) Klenow	Not available.
	dATP	Not available.
	SureSelect Adaptor Oligo Mix	Not available.
	SureSelect Primer	Not available.

SECTION 9: Physical and chemical properties

SureSelect Hyb 1	Not available.
SureSelect Hyb 2	Not available.
SureSelect Hyb 4	Not available.
SureSelect Binding Buffer	Not available.
SureSelect Wash Buffer 1	Not available.
SureSelect Wash Buffer 2	Not available.
SureSelect RNase Block	Not available.
SureSelect ILM Indexing Post Capture Forward PCR Primer	Not available.
SureSelect Hyb 3	Not available.
SureSelect Block 2	Not available.
SureSelect Indexing Block 1	Not available.
SureSelect Indexing Block 3	Not available.
SureSelect ILM Index Pre Capture PCR Reverse Primer	Not available.
SureSelect XT 8 bp Indexes	Not available.
10X End Repair Buffer	Not available.
5X T4 DNA Ligase Buffer	Not available.
Klenow DNA Polymerase	Not available.
T4 DNA Ligase	Not available.
T4 DNA Polymerase	Not available.
T4 Polynucleotide Kinase	Not available.
dNTP Mix	Not available.
10x Klenow Polymerase Buffer	Not available.
Exo(-) Klenow	Not available.
dATP	0°C
SureSelect Adaptor	0°C
Oligo Mix	
SureSelect Primer	0°C
SureSelect Hyb 1	Not available.
SureSelect Hyb 2	Not available.
SureSelect Hyb 4	0°C
SureSelect Binding Buffer	Not available.
SureSelect Wash Buffer 1	0°C
SureSelect Wash Buffer 2	0°C
SureSelect RNase Block	Not available.
SureSelect ILM Indexing Post Capture Forward PCR Primer	0°C
SureSelect Hyb 3	0°C
SureSelect Block 2	0°C
SureSelect Indexing Block 1	Not available.
SureSelect Indexing Block 3	0°C
SureSelect ILM Index Pre Capture PCR Reverse Primer	0°C
SureSelect XT 8 bp Indexes	0°C

Melting point/freezing point

:

SECTION 9: Physical and chemical properties

Initial boiling point and boiling range	:	10X End Repair Buffer	Not available.
		5X T4 DNA Ligase Buffer	Not available.
		Klenow DNA Polymerase	Not available.
		T4 DNA Ligase	Not available.
		T4 DNA Polymerase	Not available.
		T4 Polynucleotide Kinase	Not available.
		dNTP Mix	Not available.
		10x Klenow Polymerase Buffer	Not available.
		Exo(-) Klenow	Not available.
		dATP	100°C
		SureSelect Adaptor	100°C
		Oligo Mix	
		SureSelect Primer	100°C
		SureSelect Hyb 1	Not available.
		SureSelect Hyb 2	Not available.
		SureSelect Hyb 4	100°C
		SureSelect Binding Buffer	Not available.
		SureSelect Wash Buffer 1	100°C
		SureSelect Wash Buffer 2	100°C
		SureSelect RNase Block	Not available.
		SureSelect ILM Indexing Post Capture Forward PCR Primer	100°C
		SureSelect Hyb 3	100°C
		SureSelect Block 2	100°C
		SureSelect Indexing Block 1	Not available.
		SureSelect Indexing Block 3	100°C
		SureSelect ILM Index Pre Capture PCR Reverse Primer	100°C
		SureSelect XT 8 bp Indexes	100°C

Flammability	:	10X End Repair Buffer	Not applicable.
		5X T4 DNA Ligase Buffer	Not applicable.
		Klenow DNA Polymerase	Not applicable.
		T4 DNA Ligase	Not applicable.
		T4 DNA Polymerase	Not applicable.
		T4 Polynucleotide Kinase	Not applicable.
		dNTP Mix	Not applicable.
		10x Klenow Polymerase Buffer	Not applicable.
		Exo(-) Klenow	Not applicable.
		dATP	Not applicable.
		SureSelect Adaptor	Not applicable.
		Oligo Mix	
		SureSelect Primer	Not applicable.
		SureSelect Hyb 1	Not applicable.
		SureSelect Hyb 2	Not applicable.
		SureSelect Hyb 4	Not applicable.
		SureSelect Binding Buffer	Not applicable.
		SureSelect Wash Buffer 1	Not applicable.
		SureSelect Wash Buffer 2	Not applicable.
		SureSelect RNase Block	Not applicable.
		SureSelect ILM Indexing Post Capture Forward	Not applicable.

SECTION 9: Physical and chemical properties

	PCR Primer	
	SureSelect Hyb 3	Not applicable.
	SureSelect Block 2	Not applicable.
	SureSelect Indexing Block 1	Not applicable.
	SureSelect Indexing Block 3	Not applicable.
	SureSelect ILM Index Pre Capture PCR Reverse Primer	Not applicable.
	SureSelect XT 8 bp Indexes	Not applicable.
Upper/lower flammability or explosive limits	10X End Repair Buffer	Not available.
	5X T4 DNA Ligase Buffer	Not available.
	Klenow DNA Polymerase	Not available.
	T4 DNA Ligase	Not available.
	T4 DNA Polymerase	Not available.
	T4 Polynucleotide Kinase	Not available.
	dNTP Mix	Not available.
	10x Klenow Polymerase Buffer	Not available.
	Exo(-) Klenow	Not available.
	dATP	Not available.
	SureSelect Adaptor Oligo Mix	Not available.
	SureSelect Primer	Not available.
	SureSelect Hyb 1	Not available.
	SureSelect Hyb 2	Not available.
	SureSelect Hyb 4	Not available.
	SureSelect Binding Buffer	Not available.
	SureSelect Wash Buffer 1	Not available.
	SureSelect Wash Buffer 2	Not available.
	SureSelect RNase Block	Not available.
	SureSelect ILM Indexing Post Capture Forward PCR Primer	Not available.
	SureSelect Hyb 3	Not available.
	SureSelect Block 2	Not available.
	SureSelect Indexing Block 1	Not available.
	SureSelect Indexing Block 3	Not available.
	SureSelect ILM Index Pre Capture PCR Reverse Primer	Not available.
	SureSelect XT 8 bp Indexes	Not available.

Flash point	Ingredient name	Closed cup		Open cup	
		°C	Method	°C	Method
	10X End Repair Buffer (R*,R*)-1,4-dimercaptobutane-2,3-diol	>110	-	-	-
	5X T4 DNA Ligase Buffer Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	171 to 235	-	199 to 238	-

SECTION 9: Physical and chemical properties

Klenow DNA Polymerase				
glycerol	-	-	177	-
T4 DNA Ligase				
glycerol	-	-	177	-
T4 DNA Polymerase				
glycerol	-	-	177	-
T4 Polynucleotide Kinase				
glycerol	-	-	177	-
Exo(-) Klenow				
glycerol	-	-	177	-
SureSelect RNase Block				
glycerol	-	-	177	-
SureSelect Indexing Block 1				
glycerol	-	-	177	-

Auto-ignition temperature

Ingredient name	°C	Method
5X T4 DNA Ligase Buffer		
Poly(oxy-1,2-ethanediyl), α -hydro- ω -hydroxy-Ethane-1,2-diol, ethoxylated	360	-
Klenow DNA Polymerase		
glycerol	370	-
T4 DNA Ligase		
glycerol	370	-
T4 DNA Polymerase		
glycerol	370	-
T4 Polynucleotide Kinase		
glycerol	370	-
Exo(-) Klenow		
glycerol	370	-
SureSelect Hyb 2		

SECTION 9: Physical and chemical properties

edetic acid	>400	VDI 2263
SureSelect RNase Block		
glycerol	370	-
SureSelect Indexing Block 1		
glycerol	370	-

Decomposition temperature

10X End Repair Buffer	Not available.
5X T4 DNA Ligase Buffer	Not available.
Klenow DNA Polymerase	Not available.
T4 DNA Ligase	Not available.
T4 DNA Polymerase	Not available.
T4 Polynucleotide Kinase	Not available.
dNTP Mix	Not available.
10x Klenow Polymerase Buffer	Not available.
Exo(-) Klenow dATP	Not available.
SureSelect Adaptor Oligo Mix	Not available.
SureSelect Primer	Not available.
SureSelect Hyb 1	Not available.
SureSelect Hyb 2	Not available.
SureSelect Hyb 4	Not available.
SureSelect Binding Buffer	Not available.
SureSelect Wash Buffer 1	Not available.
SureSelect Wash Buffer 2	Not available.
SureSelect RNase Block	Not available.
SureSelect ILM Indexing Post Capture Forward PCR Primer	Not available.
SureSelect Hyb 3	Not available.
SureSelect Block 2	Not available.
SureSelect Indexing Block 1	Not available.
SureSelect Indexing Block 3	Not available.
SureSelect ILM Index Pre Capture PCR Reverse Primer	Not available.
SureSelect XT 8 bp Indexes	Not available.

pH

10X End Repair Buffer	7 to 8
5X T4 DNA Ligase Buffer	7 to 8
Klenow DNA Polymerase	6.5 to 7.5
T4 DNA Ligase	7 to 8
T4 DNA Polymerase	6 to 7
T4 Polynucleotide Kinase	6.9 to 7.9
dNTP Mix	7.5
10x Klenow Polymerase Buffer	7 to 8
Exo(-) Klenow dATP	6.5 to 7.5
SureSelect Adaptor Oligo Mix	7 to 8
SureSelect Primer	7.5

SECTION 9: Physical and chemical properties

SureSelect Hyb 1	7.4
SureSelect Hyb 2	8
SureSelect Hyb 4	Not available.
SureSelect Binding	7.5
Buffer	
SureSelect Wash Buffer 1	7
SureSelect Wash Buffer 2	7
SureSelect RNase Block	Not available.
SureSelect ILM Indexing	Not available.
Post Capture Forward	
PCR Primer	
SureSelect Hyb 3	7
SureSelect Block 2	8
SureSelect Indexing	Not available.
Block 1	
SureSelect Indexing	Not available.
Block 3	
SureSelect ILM Index	Not available.
Pre Capture PCR	
Reverse Primer	
SureSelect XT 8 bp	7
Indexes	

Viscosity

: 10X End Repair Buffer	Not available.
5X T4 DNA Ligase Buffer	Not available.
Klenow DNA Polymerase	Not available.
T4 DNA Ligase	Not available.
T4 DNA Polymerase	Not available.
T4 Polynucleotide Kinase	Not available.
dNTP Mix	Not available.
10x Klenow Polymerase	Not available.
Buffer	
Exo(-) Klenow	Not available.
dATP	Not available.
SureSelect Adaptor	Not available.
Oligo Mix	
SureSelect Primer	Not available.
SureSelect Hyb 1	Not available.
SureSelect Hyb 2	Not available.
SureSelect Hyb 4	Not available.
SureSelect Binding	Not available.
Buffer	
SureSelect Wash Buffer 1	Not available.
SureSelect Wash Buffer 2	Not available.
SureSelect RNase Block	Not available.
SureSelect ILM Indexing	Not available.
Post Capture Forward	
PCR Primer	
SureSelect Hyb 3	Not available.
SureSelect Block 2	Not available.
SureSelect Indexing	Not available.
Block 1	
SureSelect Indexing	Not available.
Block 3	
SureSelect ILM Index	Not available.
Pre Capture PCR	
Reverse Primer	
SureSelect XT 8 bp	Not available.
Indexes	

SECTION 9: Physical and chemical properties

Solubility(ies)	Media	Result
	10X End Repair Buffer water	Soluble
	5X T4 DNA Ligase Buffer water	Soluble
	Klenow DNA Polymerase water	Soluble
	T4 DNA Ligase water	Soluble
	T4 DNA Polymerase water	Soluble
	T4 Polynucleotide Kinase water	Soluble
	dNTP Mix water	Soluble
	10x Klenow Polymerase Buffer water	Soluble
	Exo(-) Klenow water	Soluble
	dATP water	Soluble
	SureSelect Adaptor Oligo Mix water	Soluble
	SureSelect Primer water	Soluble
	SureSelect Hyb 1 water	Soluble
	SureSelect Hyb 2 water	Soluble
	SureSelect Hyb 4 water	Soluble
	SureSelect Binding Buffer water	Soluble
	SureSelect Wash Buffer 1 water	Soluble
	SureSelect Wash Buffer 2 water	Soluble
	SureSelect RNase Block water	Soluble
	SureSelect ILM Indexing Post Capture Forward PCR Primer water	Soluble
	SureSelect Hyb 3 water	Soluble
	SureSelect Block 2 water	Soluble
	SureSelect Indexing Block 1 water	Soluble
	SureSelect Indexing Block 3 water	Soluble
	SureSelect ILM Index Pre Capture PCR Reverse Primer water	Soluble
	SureSelect XT 8 bp Indexes water	Soluble

Partition coefficient: n-octanol/water	Media	Result
	10X End Repair Buffer	Not applicable.
	5X T4 DNA Ligase Buffer	Not applicable.
	Klenow DNA Polymerase	Not applicable.
	T4 DNA Ligase	Not applicable.
	T4 DNA Polymerase	Not applicable.
	T4 Polynucleotide Kinase	Not applicable.
	dNTP Mix	Not applicable.

SECTION 9: Physical and chemical properties

10x Klenow Polymerase Buffer	Not applicable.
Exo(-) Klenow dATP	Not applicable.
SureSelect Adaptor Oligo Mix	Not applicable.
SureSelect Primer	Not applicable.
SureSelect Hyb 1	Not applicable.
SureSelect Hyb 2	Not applicable.
SureSelect Hyb 4	Not applicable.
SureSelect Binding Buffer	Not applicable.
SureSelect Wash Buffer 1	Not applicable.
SureSelect Wash Buffer 2	Not applicable.
SureSelect RNase Block	Not applicable.
SureSelect ILM Indexing Post Capture Forward PCR Primer	Not applicable.
SureSelect Hyb 3	Not applicable.
SureSelect Block 2	Not applicable.
SureSelect Indexing Block 1	Not applicable.
SureSelect Indexing Block 3	Not applicable.
SureSelect ILM Index Pre Capture PCR Reverse Primer	Not applicable.
SureSelect XT 8 bp Indexes	Not applicable.

Vapour pressure

Ingredient name	Vapour Pressure at 20° C			Vapour pressure at 50° C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
10X End Repair Buffer						
water	17.5	2.3	-	92.258	12.3	-
5X T4 DNA Ligase Buffer						
water	17.5	2.3	-	92.258	12.3	-
Klenow DNA Polymerase						
water	17.5	2.3	-	92.258	12.3	-
glycerol	0.000075	0.00001	-	0.0025	0.00033	-
T4 DNA Ligase						
water	17.5	2.3	-	92.258	12.3	-
glycerol	0.000075	0.00001	-	0.0025	0.00033	-
T4 DNA Polymerase						

SECTION 9: Physical and chemical properties

water	17.5	2.3	-	92.258	12.3	-
glycerol	0.000075	0.00001	-	0.0025	0.00033	-
T4 Polynucleotide Kinase						
water	17.5	2.3	-	92.258	12.3	-
glycerol	0.000075	0.00001	-	0.0025	0.00033	-
dNTP Mix						
water	17.5	2.3	-	92.258	12.3	-
10x Klenow Polymerase Buffer						
water	17.5	2.3	-	92.258	12.3	-
Exo(-) Klenow						
water	17.5	2.3	-	92.258	12.3	-
glycerol	0.000075	0.00001	-	0.0025	0.00033	-
dATP						
water	17.5	2.3	-	92.258	12.3	-
SureSelect Adaptor Oligo Mix						
water	17.5	2.3	-	92.258	12.3	-
SureSelect Primer						
water	17.5	2.3	-	92.258	12.3	-
SureSelect Hyb 1						
water	17.5	2.3	-	92.258	12.3	-
SureSelect Hyb 2						
water	17.5	2.3	-	92.258	12.3	-
edetic acid	0	0	-	-	-	-
SureSelect Hyb 4						
water	17.5	2.3	-	92.258	12.3	-
SureSelect Binding Buffer						

SECTION 9: Physical and chemical properties

water	17.5	2.3	-	92.258	12.3	-
SureSelect Wash Buffer 1						
water	17.5	2.3	-	92.258	12.3	-
SureSelect Wash Buffer 2						
water	17.5	2.3	-	92.258	12.3	-
SureSelect RNase Block						
water	17.5	2.3	-	92.258	12.3	-
glycerol	0.000075	0.00001	-	0.0025	0.00033	-
SureSelect ILM Indexing Post Capture Forward PCR Primer						
water	17.5	2.3	-	92.258	12.3	-
SureSelect Hyb 3						
water	17.5	2.3	-	92.258	12.3	-
SureSelect Block 2						
water	17.5	2.3	-	92.258	12.3	-
SureSelect Indexing Block 1						
water	17.5	2.3	-	92.258	12.3	-
glycerol	0.000075	0.00001	-	0.0025	0.00033	-
SureSelect Indexing Block 3						
water	17.5	2.3	-	92.258	12.3	-
SureSelect ILM Index Pre Capture PCR Reverse Primer						
water	17.5	2.3	-	92.258	12.3	-
SureSelect XT 8 bp Indexes						

SECTION 9: Physical and chemical properties

water	17.5	2.3	-	92.258	12.3	-
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Evaporation rate

- : 10X End Repair Buffer Not available.
- 5X T4 DNA Ligase Buffer Not available.
- Klenow DNA Polymerase Not available.
- T4 DNA Ligase Not available.
- T4 DNA Polymerase Not available.
- T4 Polynucleotide Kinase Not available.
- dNTP Mix Not available.
- 10x Klenow Polymerase Not available.
- Buffer
- Exo(-) Klenow Not available.
- dATP Not available.
- SureSelect Adaptor Not available.
- Oligo Mix
- SureSelect Primer Not available.
- SureSelect Hyb 1 Not available.
- SureSelect Hyb 2 Not available.
- SureSelect Hyb 4 Not available.
- SureSelect Binding Not available.
- Buffer
- SureSelect Wash Buffer Not available.
- 1
- SureSelect Wash Buffer Not available.
- 2
- SureSelect RNase Block Not available.
- SureSelect ILM Indexing Not available.
- Post Capture Forward
- PCR Primer
- SureSelect Hyb 3 Not available.
- SureSelect Block 2 Not available.
- SureSelect Indexing Not available.
- Block 1
- SureSelect Indexing Not available.
- Block 3
- SureSelect ILM Index Not available.
- Pre Capture PCR
- Reverse Primer
- SureSelect XT 8 bp Not available.
- Indexes

Relative density

- : 10X End Repair Buffer Not available.
- 5X T4 DNA Ligase Buffer Not available.
- Klenow DNA Polymerase Not available.
- T4 DNA Ligase Not available.
- T4 DNA Polymerase Not available.
- T4 Polynucleotide Kinase Not available.
- dNTP Mix Not available.
- 10x Klenow Polymerase Not available.
- Buffer
- Exo(-) Klenow Not available.
- dATP Not available.
- SureSelect Adaptor Not available.
- Oligo Mix
- SureSelect Primer Not available.
- SureSelect Hyb 1 Not available.
- SureSelect Hyb 2 Not available.
- SureSelect Hyb 4 Not available.
- SureSelect Binding Not available.
- Buffer
- SureSelect Wash Buffer Not available.
- 1
- SureSelect Wash Buffer Not available.
- 2
- SureSelect RNase Block Not available.

SECTION 9: Physical and chemical properties

SureSelect ILM Indexing Post Capture Forward PCR Primer
 SureSelect Hyb 3
 SureSelect Block 2
 SureSelect Indexing Block 1
 SureSelect Indexing Block 3
 SureSelect ILM Index Pre Capture PCR Reverse Primer
 SureSelect XT 8 bp Indexes

Vapour density

: 10X End Repair Buffer
 5X T4 DNA Ligase Buffer
 Klenow DNA Polymerase
 T4 DNA Ligase
 T4 DNA Polymerase
 T4 Polynucleotide Kinase
 dNTP Mix
 10x Klenow Polymerase Buffer
 Exo(-) Klenow
 dATP
 SureSelect Adaptor
 Oligo Mix
 SureSelect Primer
 SureSelect Hyb 1
 SureSelect Hyb 2
 SureSelect Hyb 4
 SureSelect Binding Buffer
 SureSelect Wash Buffer 1
 SureSelect Wash Buffer 2
 SureSelect RNase Block
 SureSelect ILM Indexing Post Capture Forward PCR Primer
 SureSelect Hyb 3
 SureSelect Block 2
 SureSelect Indexing Block 1
 SureSelect Indexing Block 3
 SureSelect ILM Index Pre Capture PCR Reverse Primer
 SureSelect XT 8 bp Indexes

Explosive properties

: 10X End Repair Buffer
 5X T4 DNA Ligase Buffer
 Klenow DNA Polymerase
 T4 DNA Ligase
 T4 DNA Polymerase
 T4 Polynucleotide Kinase
 dNTP Mix
 10x Klenow Polymerase Buffer
 Exo(-) Klenow
 dATP
 SureSelect Adaptor

SECTION 9: Physical and chemical properties

Oligo Mix	
SureSelect Primer	Not available.
SureSelect Hyb 1	Not available.
SureSelect Hyb 2	Not available.
SureSelect Hyb 4	Not available.
SureSelect Binding Buffer	Not available.
SureSelect Wash Buffer 1	Not available.
SureSelect Wash Buffer 2	Not available.
SureSelect RNase Block	Not available.
SureSelect ILM Indexing Post Capture Forward PCR Primer	Not available.
SureSelect Hyb 3	Not available.
SureSelect Block 2	Not available.
SureSelect Indexing Block 1	Not available.
SureSelect Indexing Block 3	Not available.
SureSelect ILM Index Pre Capture PCR Reverse Primer	Not available.
SureSelect XT 8 bp Indexes	Not available.
10X End Repair Buffer	Not available.
5X T4 DNA Ligase Buffer	Not available.
Klenow DNA Polymerase	Not available.
T4 DNA Ligase	Not available.
T4 DNA Polymerase	Not available.
T4 Polynucleotide Kinase	Not available.
dNTP Mix	Not available.
10x Klenow Polymerase Buffer	Not available.
Exo(-) Klenow	Not available.
dATP	Not available.
SureSelect Adaptor	Not available.
Oligo Mix	
SureSelect Primer	Not available.
SureSelect Hyb 1	Not available.
SureSelect Hyb 2	Not available.
SureSelect Hyb 4	Not available.
SureSelect Binding Buffer	Not available.
SureSelect Wash Buffer 1	Not available.
SureSelect Wash Buffer 2	Not available.
SureSelect RNase Block	Not available.
SureSelect ILM Indexing Post Capture Forward PCR Primer	Not available.
SureSelect Hyb 3	Not available.
SureSelect Block 2	Not available.
SureSelect Indexing Block 1	Not available.
SureSelect Indexing Block 3	Not available.
SureSelect ILM Index Pre Capture PCR Reverse Primer	Not available.
SureSelect XT 8 bp Indexes	Not available.

Oxidising properties

:

SECTION 9: Physical and chemical properties

Particle characteristics

Median particle size	:	10X End Repair Buffer	Not applicable.
		5X T4 DNA Ligase Buffer	Not applicable.
		Klenow DNA Polymerase	Not applicable.
		T4 DNA Ligase	Not applicable.
		T4 DNA Polymerase	Not applicable.
		T4 Polynucleotide Kinase	Not applicable.
		dNTP Mix	Not applicable.
		10x Klenow Polymerase Buffer	Not applicable.
		Exo(-) Klenow	Not applicable.
		dATP	Not applicable.
		SureSelect Adaptor	Not applicable.
		Oligo Mix	
		SureSelect Primer	Not applicable.
		SureSelect Hyb 1	Not applicable.
		SureSelect Hyb 2	Not applicable.
		SureSelect Hyb 4	Not applicable.
		SureSelect Binding Buffer	Not applicable.
		SureSelect Wash Buffer 1	Not applicable.
		SureSelect Wash Buffer 2	Not applicable.
		SureSelect RNase Block	Not applicable.
		SureSelect ILM Indexing Post Capture Forward PCR Primer	Not applicable.
		SureSelect Hyb 3	Not applicable.
		SureSelect Block 2	Not applicable.
		SureSelect Indexing Block 1	Not applicable.
		SureSelect Indexing Block 3	Not applicable.
		SureSelect ILM Index Pre Capture PCR Reverse Primer	Not applicable.
		SureSelect XT 8 bp Indexes	Not applicable.

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.
		Klenow DNA Polymerase	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.
		T4 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.
		dNTP Mix	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.
		Exo(-) Klenow	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

SECTION 10: Stability and reactivity

SureSelect Adaptor Oligo Mix	product or its ingredients.
SureSelect Primer	No specific test data related to reactivity available for this product or its ingredients.
SureSelect Hyb 1	No specific test data related to reactivity available for this product or its ingredients.
SureSelect Hyb 2	No specific test data related to reactivity available for this product or its ingredients.
SureSelect Hyb 4	No specific test data related to reactivity available for this product or its ingredients.
SureSelect Binding Buffer	No specific test data related to reactivity available for this product or its ingredients.
SureSelect Wash Buffer 1	No specific test data related to reactivity available for this product or its ingredients.
SureSelect Wash Buffer 2	No specific test data related to reactivity available for this product or its ingredients.
SureSelect RNase Block	No specific test data related to reactivity available for this product or its ingredients.
SureSelect ILM Indexing Post Capture Forward PCR Primer	No specific test data related to reactivity available for this product or its ingredients.
SureSelect Hyb 3	No specific test data related to reactivity available for this product or its ingredients.
SureSelect Block 2	No specific test data related to reactivity available for this product or its ingredients.
SureSelect Indexing Block 1	No specific test data related to reactivity available for this product or its ingredients.
SureSelect Indexing Block 3	No specific test data related to reactivity available for this product or its ingredients.
SureSelect ILM Index Pre Capture PCR Reverse Primer	No specific test data related to reactivity available for this product or its ingredients.
SureSelect XT 8 bp Indexes	No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

: 10X End Repair Buffer	The product is stable.
5X T4 DNA Ligase Buffer	The product is stable.
Klenow DNA Polymerase	The product is stable.
T4 DNA Ligase	The product is stable.
T4 DNA Polymerase	The product is stable.
T4 Polynucleotide Kinase	The product is stable.
dNTP Mix	The product is stable.
10x Klenow Polymerase Buffer	The product is stable.
Exo(-) Klenow	The product is stable.
dATP	The product is stable.
SureSelect Adaptor Oligo Mix	The product is stable.
SureSelect Primer	The product is stable.
SureSelect Hyb 1	The product is stable.
SureSelect Hyb 2	The product is stable.
SureSelect Hyb 4	The product is stable.
SureSelect Binding Buffer	The product is stable.
SureSelect Wash Buffer 1	The product is stable.
SureSelect Wash Buffer 2	The product is stable.
SureSelect RNase Block	The product is stable.
SureSelect ILM Indexing Post Capture Forward PCR Primer	The product is stable.
SureSelect Hyb 3	The product is stable.

SECTION 10: Stability and reactivity

SureSelect Block 2	The product is stable.
SureSelect Indexing Block 1	The product is stable.
SureSelect Indexing Block 3	The product is stable.
SureSelect ILM Index Pre Capture PCR Reverse Primer	The product is stable.
SureSelect XT 8 bp Indexes	The product is stable.

10.3 Possibility of hazardous reactions

: 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.
Klenow DNA Polymerase	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.
T4 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.
dNTP Mix	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.
Exo(-) Klenow	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 Adaptor Oligo Mix	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect Primer	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect Hyb 1	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect Hyb 2	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect Hyb 4	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect Binding Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect Wash Buffer 1	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect Wash Buffer 2	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect RNase Block	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect ILM Indexing Post Capture Forward PCR Primer	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect Hyb 3	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect Block 2	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect Indexing Block 1	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect Indexing Block 3	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect ILM Index Pre Capture PCR Reverse Primer	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect XT 8 bp	Under normal conditions of storage and use, hazardous

SECTION 10: Stability and reactivity

Indexes reactions will not occur.

10.4 Conditions to avoid	:	10X End Repair Buffer	No specific data.
		5X T4 DNA Ligase Buffer	No specific data.
		Klenow DNA Polymerase	No specific data.
		T4 DNA Ligase	No specific data.
		T4 DNA Polymerase	No specific data.
		T4 Polynucleotide Kinase	No specific data.
		dNTP Mix	No specific data.
		10x Klenow Polymerase Buffer	No specific data.
		Exo(-) Klenow	No specific data.
		dATP	No specific data.
		SureSelect Adaptor	No specific data.
		Oligo Mix	
		SureSelect Primer	No specific data.
		SureSelect Hyb 1	No specific data.
		SureSelect Hyb 2	No specific data.
		SureSelect Hyb 4	No specific data.
		SureSelect Binding Buffer	No specific data.
		SureSelect Wash Buffer 1	No specific data.
		SureSelect Wash Buffer 2	No specific data.
		SureSelect RNase Block	No specific data.
		SureSelect ILM Indexing Post Capture Forward PCR Primer	No specific data.
		SureSelect Hyb 3	No specific data.
		SureSelect Block 2	No specific data.
		SureSelect Indexing Block 1	No specific data.
		SureSelect Indexing Block 3	No specific data.
		SureSelect ILM Index Pre Capture PCR Reverse Primer	No specific data.
		SureSelect XT 8 bp Indexes	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.
		Klenow DNA Polymerase	May react or be incompatible with oxidising materials.
		T4 DNA Ligase	May react or be incompatible with oxidising materials.
		T4 DNA Polymerase	May react or be incompatible with oxidising materials.
		T4 Polynucleotide Kinase	May react or be incompatible with oxidising materials.
		dNTP Mix	May react or be incompatible with oxidising materials.
		10x Klenow Polymerase Buffer	May react or be incompatible with oxidising materials.
		Exo(-) Klenow	May react or be incompatible with oxidising materials.
		dATP	May react or be incompatible with oxidising materials.
		SureSelect Adaptor	May react or be incompatible with oxidising materials.
		Oligo Mix	
		SureSelect Primer	May react or be incompatible with oxidising materials.
		SureSelect Hyb 1	May react or be incompatible with oxidising materials.
		SureSelect Hyb 2	May react or be incompatible with oxidising materials.
		SureSelect Hyb 4	May react or be incompatible with oxidising materials.
		SureSelect Binding Buffer	May react or be incompatible with oxidising materials.
		SureSelect Wash Buffer 1	May react or be incompatible with oxidising materials.
		SureSelect Wash Buffer	May react or be incompatible with oxidising materials.

SECTION 10: Stability and reactivity

2	
SureSelect RNase Block	May react or be incompatible with oxidising materials.
SureSelect ILM Indexing Post Capture Forward PCR Primer	May react or be incompatible with oxidising materials.
SureSelect Hyb 3	May react or be incompatible with oxidising materials.
SureSelect Block 2	May react or be incompatible with oxidising materials.
SureSelect Indexing Block 1	May react or be incompatible with oxidising materials.
SureSelect Indexing Block 3	May react or be incompatible with oxidising materials.
SureSelect ILM Index Pre Capture PCR Reverse Primer	May react or be incompatible with oxidising materials.
SureSelect XT 8 bp Indexes	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.
Klenow DNA Polymerase	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.
T4 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.
dNTP Mix	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.
Exo(-) Klenow	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 Adaptor Oligo Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureSelect Primer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureSelect Hyb 1	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureSelect Hyb 2	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureSelect Hyb 4	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureSelect Binding Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureSelect Wash Buffer 1	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureSelect Wash Buffer 2	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureSelect RNase Block	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureSelect ILM Indexing Post Capture Forward PCR Primer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureSelect Hyb 3	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureSelect Block 2	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureSelect Indexing Block 1	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 10: Stability and reactivity

SureSelect Indexing Block 3	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureSelect ILM Index Pre Capture PCR Reverse Primer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureSelect XT 8 bp Indexes	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
SureSelect Hyb 1 Sodium dihydrogenorthophosphate	LD50 Dermal	Rabbit	>7940 mg/kg	-
	LD50 Oral	Rat	8290 mg/kg	-
SureSelect Hyb 2 Edetic acid	LD50 Oral	Rat	4500 mg/kg	-

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
10X End Repair Buffer 10X End Repair Buffer (R*,R*)-1,4-Dimercaptobutane-2,3-diol	32467.5	N/A	N/A	N/A	N/A
	500	N/A	N/A	N/A	N/A
SureSelect Hyb 1 Sodium dihydrogenorthophosphate	8290	N/A	N/A	N/A	N/A
SureSelect Hyb 2 SureSelect Hyb 2 Edetic acid	N/A	N/A	N/A	N/A	10.3
	4500	N/A	N/A	N/A	1.5

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
SureSelect Hyb 1 Sodium dihydrogenorthophosphate	Eyes - Mild irritant	Rabbit	-	150 mg	-

Sensitiser

Conclusion/Summary : Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

SECTION 11: Toxicological information

Product/ingredient name	Category	Route of exposure	Target organs
10X End Repair Buffer (R*,R*)-1,4-Dimercaptobutane-2,3-diol	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
SureSelect Hyb 2 Edetic acid	Category 2	inhalation	respiratory tract

Aspiration hazard

Not available.

Information on likely routes of exposure

10X End Repair Buffer	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
5X T4 DNA Ligase Buffer	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
Klenow DNA Polymerase	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
T4 DNA Ligase	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
T4 DNA Polymerase	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
T4 Polynucleotide Kinase	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
dNTP Mix	Not available.
10x Klenow Polymerase Buffer	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
Exo(-) Klenow dATP	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. Not available.
SureSelect Adaptor Oligo Mix	Not available.
SureSelect Primer	Not available.
SureSelect Hyb 1	Not available.
SureSelect Hyb 2	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
SureSelect Hyb 4	Not available.
SureSelect Binding Buffer	Not available.
SureSelect Wash Buffer 1	Not available.
SureSelect Wash Buffer 2	Not available.
SureSelect RNase Block	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
SureSelect ILM Indexing Post Capture Forward PCR Primer	Not available.
SureSelect Hyb 3	Not available.
SureSelect Block 2	Not available.
SureSelect Indexing Block 1	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
SureSelect Indexing Block 3	Not available.
SureSelect ILM Index Pre Capture PCR Reverse Primer	Not available.
SureSelect XT 8 bp Indexes	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.
Klenow DNA Polymerase	No known significant effects or critical hazards.
T4 DNA Ligase	No known significant effects or critical hazards.
T4 DNA Polymerase	No known significant effects or critical hazards.
T4 Polynucleotide Kinase	No known significant effects or critical hazards.
dNTP Mix	No known significant effects or critical hazards.
10x Klenow Polymerase	No known significant effects or critical hazards.

SECTION 11: Toxicological information

Buffer	
Exo(-) Klenow	No known significant effects or critical hazards.
dATP	No known significant effects or critical hazards.
SureSelect Adaptor	No known significant effects or critical hazards.
Oligo Mix	
SureSelect Primer	No known significant effects or critical hazards.
SureSelect Hyb 1	No known significant effects or critical hazards.
SureSelect Hyb 2	No known significant effects or critical hazards.
SureSelect Hyb 4	No known significant effects or critical hazards.
SureSelect Binding	No known significant effects or critical hazards.
Buffer	
SureSelect Wash Buffer 1	No known significant effects or critical hazards.
SureSelect Wash Buffer 2	No known significant effects or critical hazards.
SureSelect RNase Block	No known significant effects or critical hazards.
SureSelect ILM Indexing	No known significant effects or critical hazards.
Post Capture Forward	
PCR Primer	
SureSelect Hyb 3	No known significant effects or critical hazards.
SureSelect Block 2	No known significant effects or critical hazards.
SureSelect Indexing	No known significant effects or critical hazards.
Block 1	
SureSelect Indexing	No known significant effects or critical hazards.
Block 3	
SureSelect ILM Index	No known significant effects or critical hazards.
Pre Capture PCR	
Reverse Primer	
SureSelect XT 8 bp	No known significant effects or critical hazards.
Indexes	
: 10X End Repair Buffer	No known significant effects or critical hazards.
5X T4 DNA Ligase Buffer	No known significant effects or critical hazards.
Klenow DNA Polymerase	No known significant effects or critical hazards.
T4 DNA Ligase	No known significant effects or critical hazards.
T4 DNA Polymerase	No known significant effects or critical hazards.
T4 Polynucleotide Kinase	No known significant effects or critical hazards.
dNTP Mix	No known significant effects or critical hazards.
10x Klenow Polymerase	No known significant effects or critical hazards.
Buffer	
Exo(-) Klenow	No known significant effects or critical hazards.
dATP	No known significant effects or critical hazards.
SureSelect Adaptor	No known significant effects or critical hazards.
Oligo Mix	
SureSelect Primer	No known significant effects or critical hazards.
SureSelect Hyb 1	No known significant effects or critical hazards.
SureSelect Hyb 2	No known significant effects or critical hazards.
SureSelect Hyb 4	No known significant effects or critical hazards.
SureSelect Binding	No known significant effects or critical hazards.
Buffer	
SureSelect Wash Buffer 1	No known significant effects or critical hazards.
SureSelect Wash Buffer 2	No known significant effects or critical hazards.
SureSelect RNase Block	No known significant effects or critical hazards.
SureSelect ILM Indexing	No known significant effects or critical hazards.
Post Capture Forward	
PCR Primer	
SureSelect Hyb 3	No known significant effects or critical hazards.
SureSelect Block 2	No known significant effects or critical hazards.
SureSelect Indexing	No known significant effects or critical hazards.
Block 1	
SureSelect Indexing	No known significant effects or critical hazards.
Block 3	
SureSelect ILM Index	No known significant effects or critical hazards.

Ingestion

SECTION 11: Toxicological information

	Pre Capture PCR	
	Reverse Primer	
	SureSelect XT 8 bp	No known significant effects or critical hazards.
	Indexes	
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.
	Klenow DNA Polymerase	No known significant effects or critical hazards.
	T4 DNA Ligase	No known significant effects or critical hazards.
	T4 DNA Polymerase	No known significant effects or critical hazards.
	T4 Polynucleotide Kinase	No known significant effects or critical hazards.
	dNTP Mix	No known significant effects or critical hazards.
	10x Klenow Polymerase	No known significant effects or critical hazards.
	Buffer	
	Exo(-) Klenow	No known significant effects or critical hazards.
	dATP	No known significant effects or critical hazards.
	SureSelect Adaptor	No known significant effects or critical hazards.
	Oligo Mix	
	SureSelect Primer	No known significant effects or critical hazards.
	SureSelect Hyb 1	No known significant effects or critical hazards.
	SureSelect Hyb 2	No known significant effects or critical hazards.
	SureSelect Hyb 4	No known significant effects or critical hazards.
	SureSelect Binding	No known significant effects or critical hazards.
	Buffer	
	SureSelect Wash Buffer	No known significant effects or critical hazards.
	1	
	SureSelect Wash Buffer	No known significant effects or critical hazards.
	2	
	SureSelect RNase Block	No known significant effects or critical hazards.
	SureSelect ILM Indexing	No known significant effects or critical hazards.
	Post Capture Forward	
	PCR Primer	
	SureSelect Hyb 3	No known significant effects or critical hazards.
	SureSelect Block 2	No known significant effects or critical hazards.
	SureSelect Indexing	No known significant effects or critical hazards.
	Block 1	
	SureSelect Indexing	No known significant effects or critical hazards.
	Block 3	
	SureSelect ILM Index	No known significant effects or critical hazards.
	Pre Capture PCR	
	Reverse Primer	
	SureSelect XT 8 bp	No known significant effects or critical hazards.
	Indexes	
Eye contact	: 10X End Repair Buffer	No known significant effects or critical hazards.
	5X T4 DNA Ligase Buffer	No known significant effects or critical hazards.
	Klenow DNA Polymerase	No known significant effects or critical hazards.
	T4 DNA Ligase	No known significant effects or critical hazards.
	T4 DNA Polymerase	No known significant effects or critical hazards.
	T4 Polynucleotide Kinase	No known significant effects or critical hazards.
	dNTP Mix	No known significant effects or critical hazards.
	10x Klenow Polymerase	No known significant effects or critical hazards.
	Buffer	
	Exo(-) Klenow	No known significant effects or critical hazards.
	dATP	No known significant effects or critical hazards.
	SureSelect Adaptor	No known significant effects or critical hazards.
	Oligo Mix	
	SureSelect Primer	No known significant effects or critical hazards.
	SureSelect Hyb 1	No known significant effects or critical hazards.
	SureSelect Hyb 2	Causes serious eye irritation.
	SureSelect Hyb 4	No known significant effects or critical hazards.
	SureSelect Binding	No known significant effects or critical hazards.
	Buffer	
	SureSelect Wash Buffer	No known significant effects or critical hazards.
	1	

SECTION 11: Toxicological information

SureSelect Wash Buffer 2	No known significant effects or critical hazards.
SureSelect RNase Block	No known significant effects or critical hazards.
SureSelect ILM Indexing Post Capture Forward PCR Primer	No known significant effects or critical hazards.
SureSelect Hyb 3	No known significant effects or critical hazards.
SureSelect Block 2	No known significant effects or critical hazards.
SureSelect Indexing Block 1	No known significant effects or critical hazards.
SureSelect Indexing Block 3	No known significant effects or critical hazards.
SureSelect ILM Index Pre Capture PCR Reverse Primer	No known significant effects or critical hazards.
SureSelect XT 8 bp Indexes	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.
		Klenow DNA Polymerase	No specific data.
		T4 DNA Ligase	No specific data.
		T4 DNA Polymerase	No specific data.
		T4 Polynucleotide Kinase	No specific data.
		dNTP Mix	No specific data.
		10x Klenow Polymerase Buffer	No specific data.
		Exo(-) Klenow dATP	No specific data.
		SureSelect Adaptor Oligo Mix	No specific data.
		SureSelect Primer	No specific data.
		SureSelect Hyb 1	No specific data.
		SureSelect Hyb 2	No specific data.
		SureSelect Hyb 4	No specific data.
		SureSelect Binding Buffer	No specific data.
		SureSelect Wash Buffer 1	No specific data.
		SureSelect Wash Buffer 2	No specific data.
		SureSelect RNase Block	No specific data.
		SureSelect ILM Indexing Post Capture Forward PCR Primer	No specific data.
		SureSelect Hyb 3	No specific data.
		SureSelect Block 2	No specific data.
		SureSelect Indexing Block 1	No specific data.
		SureSelect Indexing Block 3	No specific data.
		SureSelect ILM Index Pre Capture PCR Reverse Primer	No specific data.
		SureSelect XT 8 bp Indexes	No specific data.
Ingestion	:	10X End Repair Buffer	No specific data.
		5X T4 DNA Ligase Buffer	No specific data.
		Klenow DNA Polymerase	No specific data.
		T4 DNA Ligase	No specific data.
		T4 DNA Polymerase	No specific data.
		T4 Polynucleotide Kinase	No specific data.
		dNTP Mix	No specific data.

SECTION 11: Toxicological information

10x Klenow Polymerase Buffer	No specific data.
Exo(-) Klenow dATP	No specific data.
SureSelect Adaptor Oligo Mix	No specific data.
SureSelect Primer	No specific data.
SureSelect Hyb 1	No specific data.
SureSelect Hyb 2	No specific data.
SureSelect Hyb 4	No specific data.
SureSelect Binding Buffer	No specific data.
SureSelect Wash Buffer 1	No specific data.
SureSelect Wash Buffer 2	No specific data.
SureSelect RNase Block	No specific data.
SureSelect ILM Indexing Post Capture Forward PCR Primer	No specific data.
SureSelect Hyb 3	No specific data.
SureSelect Block 2	No specific data.
SureSelect Indexing Block 1	No specific data.
SureSelect Indexing Block 3	No specific data.
SureSelect ILM Index Pre Capture PCR Reverse Primer	No specific data.
SureSelect XT 8 bp Indexes	No specific data.
10X End Repair Buffer	No specific data.
5X T4 DNA Ligase Buffer	No specific data.
Klenow DNA Polymerase	No specific data.
T4 DNA Ligase	No specific data.
T4 DNA Polymerase	No specific data.
T4 Polynucleotide Kinase	No specific data.
dNTP Mix	No specific data.
10x Klenow Polymerase Buffer	No specific data.
Exo(-) Klenow dATP	No specific data.
SureSelect Adaptor Oligo Mix	No specific data.
SureSelect Primer	No specific data.
SureSelect Hyb 1	No specific data.
SureSelect Hyb 2	No specific data.
SureSelect Hyb 4	No specific data.
SureSelect Binding Buffer	No specific data.
SureSelect Wash Buffer 1	No specific data.
SureSelect Wash Buffer 2	No specific data.
SureSelect RNase Block	No specific data.
SureSelect ILM Indexing Post Capture Forward PCR Primer	No specific data.
SureSelect Hyb 3	No specific data.
SureSelect Block 2	No specific data.
SureSelect Indexing Block 1	No specific data.
SureSelect Indexing Block 3	No specific data.

Skin contact

: 10X End Repair Buffer	No specific data.
5X T4 DNA Ligase Buffer	No specific data.
Klenow DNA Polymerase	No specific data.
T4 DNA Ligase	No specific data.
T4 DNA Polymerase	No specific data.
T4 Polynucleotide Kinase	No specific data.
dNTP Mix	No specific data.
10x Klenow Polymerase Buffer	No specific data.
Exo(-) Klenow dATP	No specific data.
SureSelect Adaptor Oligo Mix	No specific data.
SureSelect Primer	No specific data.
SureSelect Hyb 1	No specific data.
SureSelect Hyb 2	No specific data.
SureSelect Hyb 4	No specific data.
SureSelect Binding Buffer	No specific data.
SureSelect Wash Buffer 1	No specific data.
SureSelect Wash Buffer 2	No specific data.
SureSelect RNase Block	No specific data.
SureSelect ILM Indexing Post Capture Forward PCR Primer	No specific data.
SureSelect Hyb 3	No specific data.
SureSelect Block 2	No specific data.
SureSelect Indexing Block 1	No specific data.
SureSelect Indexing Block 3	No specific data.

SECTION 11: Toxicological information

	SureSelect ILM Index	No specific data.
	Pre Capture PCR	
	Reverse Primer	
	SureSelect XT 8 bp	No specific data.
	Indexes	
Eye contact	: 10X End Repair Buffer	No specific data.
	5X T4 DNA Ligase Buffer	No specific data.
	Klenow DNA Polymerase	No specific data.
	T4 DNA Ligase	No specific data.
	T4 DNA Polymerase	No specific data.
	T4 Polynucleotide Kinase	No specific data.
	dNTP Mix	No specific data.
	10x Klenow Polymerase	No specific data.
	Buffer	
	Exo(-) Klenow	No specific data.
	dATP	No specific data.
	SureSelect Adaptor	No specific data.
	Oligo Mix	
	SureSelect Primer	No specific data.
	SureSelect Hyb 1	No specific data.
	SureSelect Hyb 2	Adverse symptoms may include the following: pain or irritation watering redness
	SureSelect Hyb 4	No specific data.
	SureSelect Binding	No specific data.
	Buffer	
	SureSelect Wash Buffer	No specific data.
	1	
	SureSelect Wash Buffer	No specific data.
	2	
	SureSelect RNase Block	No specific data.
	SureSelect ILM Indexing	No specific data.
	Post Capture Forward	
	PCR Primer	
	SureSelect Hyb 3	No specific data.
	SureSelect Block 2	No specific data.
	SureSelect Indexing	No specific data.
	Block 1	
	SureSelect Indexing	No specific data.
	Block 3	
	SureSelect ILM Index	No specific data.
	Pre Capture PCR	
	Reverse Primer	
	SureSelect XT 8 bp	No specific data.
	Indexes	

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

Conclusion/Summary : Not available.

SECTION 11: Toxicological information

General	:	10X End Repair Buffer	No known significant effects or critical hazards.	
		5X T4 DNA Ligase Buffer	No known significant effects or critical hazards.	
		Klenow DNA Polymerase	No known significant effects or critical hazards.	
		T4 DNA Ligase	No known significant effects or critical hazards.	
		T4 DNA Polymerase	No known significant effects or critical hazards.	
		T4 Polynucleotide Kinase	No known significant effects or critical hazards.	
		dNTP Mix	No known significant effects or critical hazards.	
		10x Klenow Polymerase Buffer	No known significant effects or critical hazards.	
		Exo(-) Klenow	No known significant effects or critical hazards.	
		dATP	No known significant effects or critical hazards.	
		SureSelect Adaptor	No known significant effects or critical hazards.	
		Oligo Mix		
		SureSelect Primer	No known significant effects or critical hazards.	
		SureSelect Hyb 1	No known significant effects or critical hazards.	
		SureSelect Hyb 2	May cause damage to organs through prolonged or repeated exposure.	
		SureSelect Hyb 4	No known significant effects or critical hazards.	
		SureSelect Binding Buffer	No known significant effects or critical hazards.	
		SureSelect Wash Buffer 1	No known significant effects or critical hazards.	
		SureSelect Wash Buffer 2	No known significant effects or critical hazards.	
		SureSelect RNase Block	No known significant effects or critical hazards.	
		SureSelect ILM Indexing Post Capture Forward PCR Primer	No known significant effects or critical hazards.	
		SureSelect Hyb 3	No known significant effects or critical hazards.	
		SureSelect Block 2	No known significant effects or critical hazards.	
		SureSelect Indexing Block 1	No known significant effects or critical hazards.	
		SureSelect Indexing Block 3	No known significant effects or critical hazards.	
		SureSelect ILM Index Pre Capture PCR Reverse Primer	No known significant effects or critical hazards.	
		SureSelect XT 8 bp Indexes	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.
			Klenow DNA Polymerase	No known significant effects or critical hazards.
		T4 DNA Ligase	No known significant effects or critical hazards.	
		T4 DNA Polymerase	No known significant effects or critical hazards.	
		T4 Polynucleotide Kinase	No known significant effects or critical hazards.	
		dNTP Mix	No known significant effects or critical hazards.	
		10x Klenow Polymerase Buffer	No known significant effects or critical hazards.	
		Exo(-) Klenow	No known significant effects or critical hazards.	
		dATP	No known significant effects or critical hazards.	
		SureSelect Adaptor	No known significant effects or critical hazards.	
		Oligo Mix		
		SureSelect Primer	No known significant effects or critical hazards.	
		SureSelect Hyb 1	No known significant effects or critical hazards.	
		SureSelect Hyb 2	No known significant effects or critical hazards.	
		SureSelect Hyb 4	No known significant effects or critical hazards.	
		SureSelect Binding Buffer	No known significant effects or critical hazards.	
		SureSelect Wash Buffer 1	No known significant effects or critical hazards.	
		SureSelect Wash Buffer 2	No known significant effects or critical hazards.	
		SureSelect RNase Block	No known significant effects or critical hazards.	
		SureSelect ILM Indexing	No known significant effects or critical hazards.	

SECTION 11: Toxicological information

Post Capture Forward
 PCR Primer
 SureSelect Hyb 3 No known significant effects or critical hazards.
 SureSelect Block 2 No known significant effects or critical hazards.
 SureSelect Indexing
 Block 1 No known significant effects or critical hazards.
 SureSelect Indexing
 Block 3 No known significant effects or critical hazards.
 SureSelect ILM Index No known significant effects or critical hazards.
 Pre Capture PCR
 Reverse Primer
 SureSelect XT 8 bp
 Indexes 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.
 Klenow DNA Polymerase No known significant effects or critical hazards.
 T4 DNA Ligase No known significant effects or critical hazards.
 T4 DNA Polymerase No known significant effects or critical hazards.
 T4 Polynucleotide Kinase No known significant effects or critical hazards.
 dNTP Mix No known significant effects or critical hazards.
 10x Klenow Polymerase
 Buffer No known significant effects or critical hazards.
 Exo(-) Klenow No known significant effects or critical hazards.
 dATP No known significant effects or critical hazards.
 SureSelect Adaptor
 Oligo Mix No known significant effects or critical hazards.
 SureSelect Primer No known significant effects or critical hazards.
 SureSelect Hyb 1 No known significant effects or critical hazards.
 SureSelect Hyb 2 No known significant effects or critical hazards.
 SureSelect Hyb 4 No known significant effects or critical hazards.
 SureSelect Binding
 Buffer No known significant effects or critical hazards.
 SureSelect Wash Buffer
 1 No known significant effects or critical hazards.
 SureSelect Wash Buffer
 2 No known significant effects or critical hazards.
 SureSelect RNase Block No known significant effects or critical hazards.
 SureSelect ILM Indexing No known significant effects or critical hazards.
 Post Capture Forward
 PCR Primer
 SureSelect Hyb 3 No known significant effects or critical hazards.
 SureSelect Block 2 No known significant effects or critical hazards.
 SureSelect Indexing
 Block 1 No known significant effects or critical hazards.
 SureSelect Indexing
 Block 3 No known significant effects or critical hazards.
 SureSelect ILM Index No known significant effects or critical hazards.
 Pre Capture PCR
 Reverse Primer
 SureSelect XT 8 bp
 Indexes No known significant effects or critical hazards.

Reproductive toxicity

: 10X End Repair Buffer No known significant effects or critical hazards.
 5X T4 DNA Ligase Buffer No known significant effects or critical hazards.
 Klenow DNA Polymerase No known significant effects or critical hazards.
 T4 DNA Ligase No known significant effects or critical hazards.
 T4 DNA Polymerase No known significant effects or critical hazards.
 T4 Polynucleotide Kinase No known significant effects or critical hazards.
 dNTP Mix No known significant effects or critical hazards.
 10x Klenow Polymerase
 Buffer No known significant effects or critical hazards.
 Exo(-) Klenow No known significant effects or critical hazards.
 dATP No known significant effects or critical hazards.
 SureSelect Adaptor No known significant effects or critical hazards.

SECTION 11: Toxicological information

Oligo Mix	
SureSelect Primer	No known significant effects or critical hazards.
SureSelect Hyb 1	No known significant effects or critical hazards.
SureSelect Hyb 2	No known significant effects or critical hazards.
SureSelect Hyb 4	No known significant effects or critical hazards.
SureSelect Binding Buffer	No known significant effects or critical hazards.
SureSelect Wash Buffer 1	No known significant effects or critical hazards.
SureSelect Wash Buffer 2	No known significant effects or critical hazards.
SureSelect RNase Block	No known significant effects or critical hazards.
SureSelect ILM Indexing Post Capture Forward PCR Primer	No known significant effects or critical hazards.
SureSelect Hyb 3	No known significant effects or critical hazards.
SureSelect Block 2	No known significant effects or critical hazards.
SureSelect Indexing Block 1	No known significant effects or critical hazards.
SureSelect Indexing Block 3	No known significant effects or critical hazards.
SureSelect ILM Index Pre Capture PCR Reverse Primer	No known significant effects or critical hazards.
SureSelect XT 8 bp Indexes	No known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

10X End Repair Buffer	Adverse symptoms may include the following: May cause skin sensitisation.
Klenow DNA Polymerase	Adverse symptoms may include the following: May cause skin sensitisation.
10x Klenow Polymerase Buffer	Adverse symptoms may include the following: May cause skin sensitisation.
Exo(-) Klenow	Adverse symptoms may include the following: May cause skin sensitisation.
SureSelect RNase Block	Adverse symptoms may include the following: May cause skin sensitisation.

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 - <i>Daphnia magna</i>	48 hours
SureSelect Hyb 1 Sodium dihydrogenorthophosphate	Acute LC50 720 ppm Fresh water	Fish - <i>Gambusia affinis</i> - Adult	96 hours
SureSelect Hyb 2 Edetic acid	Acute EC50 >60 mg/l Fresh water Acute EC50 113000 µg/l Fresh water Acute LC50 129000 µg/l Fresh water	Algae - <i>Raphidocelis subcapitata</i> Daphnia - <i>Daphnia magna</i> - Neonate Fish - <i>Ictalurus punctatus</i> - Fingerling	72 hours 48 hours 96 hours

12.2 Persistence and degradability

Not available.

SECTION 12: Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
SureSelect Hyb 2 Edetic acid	-	-	Not readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
SureSelect Hyb 2 Edetic acid	-	1.8	Low

12.4 Mobility in soil

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

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties

Not available.

12.7 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
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-

SECTION 14: Transport information

14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	No.	No.	No.

Additional information

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

14.7 Transport in bulk according to IMO instruments : Not available.

SECTION 15: Regulatory information

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

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

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

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

Product / Ingredient name	Identifiers	Designation [Usage]
SureSelect Hyb 2 SureSelect Hyb 2		3

Label	: 10X End Repair Buffer	Not applicable.
	5X T4 DNA Ligase Buffer	Not applicable.
	Klenow DNA Polymerase	Not applicable.
	T4 DNA Ligase	Not applicable.
	T4 DNA Polymerase	Not applicable.
	T4 Polynucleotide Kinase	Not applicable.
	dNTP Mix	Not applicable.
	10x Klenow Polymerase Buffer	Not applicable.
	Exo(-) Klenow	Not applicable.
	dATP	Not applicable.
	SureSelect Adaptor Oligo Mix	Not applicable.
	SureSelect Primer	Not applicable.
	SureSelect Hyb 1	Not applicable.
	SureSelect Hyb 2	Not applicable.
	SureSelect Hyb 4	Not applicable.
	SureSelect Binding Buffer	Not applicable.
	SureSelect Wash Buffer 1	Not applicable.
	SureSelect Wash Buffer 2	Not applicable.
	SureSelect RNase Block	Not applicable.
	SureSelect ILM Indexing Post	Not applicable.
	Capture Forward PCR Primer	Not applicable.
	SureSelect Hyb 3	Not applicable.
	SureSelect Block 2	Not applicable.

SECTION 15: Regulatory information

SureSelect Indexing Block 1	Not applicable.
SureSelect Indexing Block 3	Not applicable.
SureSelect ILM Index Pre	Not applicable.
Capture PCR Reverse Primer	
SureSelect XT 8 bp Indexes	Not applicable.

Other EU regulations

Ozone depleting substances (1005/2009/EU)

Not listed.

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

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia	: Not determined.
Canada	: Not determined.
China	: Not determined.
Eurasian Economic Union	: Russian Federation inventory: Not determined.
Japan	: Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: Not determined.
Thailand	: Not determined.
Turkey	: Not determined.
United States	: All components are active or exempted.
Viet Nam	: Not determined.

15.2 Chemical safety assessment

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

SECTION 16: Other information

Indicates information that has changed from previously issued version.

- Abbreviations and acronyms**
- : ATE = Acute Toxicity Estimate
 - CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
 - DMEL = Derived Minimal Effect Level
 - DNEL = Derived No Effect Level
 - EUH statement = CLP-specific Hazard statement
 - N/A = Not available
 - PBT = Persistent, Bioaccumulative and Toxic
 - PNEC = Predicted No Effect Concentration
 - RRN = REACH Registration Number
 - vPvB = Very Persistent and Very Bioaccumulative

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

Classification	Justification
SureSelect Hyb 2 Eye Irrit. 2, H319 STOT RE 2, H373	Calculation method Calculation method

Full text of abbreviated H statements

10X End Repair Buffer H302 H315 H319 H335 H412	Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. Harmful to aquatic life with long lasting effects.
SureSelect Hyb 1 H319	Causes serious eye irritation.
SureSelect Hyb 2 H319 H332 H373	Causes serious eye irritation. Harmful if inhaled. May cause damage to organs through prolonged or repeated exposure.

Full text of classifications [CLP/GHS]

10X End Repair Buffer Acute Tox. 4 Aquatic Chronic 3 Eye Irrit. 2 Skin Irrit. 2 STOT SE 3	ACUTE TOXICITY - 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 - Category 3
SureSelect Hyb 1 Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
SureSelect Hyb 2 Acute Tox. 4 Eye Irrit. 2 STOT RE 2	ACUTE TOXICITY - Category 4 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2

Date of issue/ Date of revision : 12/03/2024

Date of previous issue : No previous validation

Version : 1

Notice to reader

SECTION 16: Other information

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