

SAFETY DATA SHEET



Product: SureSelect XT Reagent Kit-S5500 - 96 Samples, Part Number G9615B

Section 1. Identification

1.1 Product identifier

Product name	: Product: SureSelect XT Reagent Kit-S5500 - 96 Samples, Part Number G9615B																																																			
Part No. (Chemical Kit)	: G9615B																																																			
Part No.	:	<table border="0" style="width: 100%;"> <tr><td>10X End-Repair Buffer</td><td>5190-3609</td></tr> <tr><td>5X T4 DNA Ligase Buffer</td><td>5190-3610</td></tr> <tr><td>Klenow DNA Polymerase</td><td>5190-3615</td></tr> <tr><td>T4 DNA Ligase</td><td>5190-3612</td></tr> <tr><td>T4 DNA Polymerase</td><td>5190-3614</td></tr> <tr><td>T4 Polynucleotide Kinase</td><td>5190-3616</td></tr> <tr><td>dNTP Mix</td><td>5190-3618</td></tr> <tr><td>10x Klenow Polymerase Buffer</td><td>5190-3611</td></tr> <tr><td>Exo(-) Klenow</td><td>5190-3613</td></tr> <tr><td>dATP</td><td>5190-3617</td></tr> <tr><td>SureSelect LTI5500 P1</td><td>5190-5463</td></tr> <tr><td>SureSelect LTI5500 IA</td><td>5190-5464</td></tr> <tr><td>SureSelect LTI Pre Capture Primer</td><td>5190-5465</td></tr> <tr><td>SureSelect LTI5500 BC1-BC96 Plate</td><td>5190-5462</td></tr> <tr><td>SureSelect RNase Block</td><td>5972-3700</td></tr> <tr><td>SureSelect Hyb #3</td><td>5190-4385</td></tr> <tr><td>SureSelect Block #2</td><td>5972-3698</td></tr> <tr><td>SureSelect Indexing Block #1</td><td>5972-3697</td></tr> <tr><td>SureSelect LT Indexing Block #3</td><td>5190-4448</td></tr> <tr><td>SureSelect Hyb #1</td><td>5190-4404</td></tr> <tr><td>SureSelect Hyb #2</td><td>5190-4405</td></tr> <tr><td>SureSelect Hyb #4</td><td>5190-4406</td></tr> <tr><td>SureSelect Binding Buffer</td><td>5190-4407</td></tr> <tr><td>SureSelect Wash Buffer 1</td><td>5190-4408</td></tr> <tr><td>SureSelect Wash Buffer 2</td><td>5190-4409</td></tr> </table>	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 LTI5500 P1	5190-5463	SureSelect LTI5500 IA	5190-5464	SureSelect LTI Pre Capture Primer	5190-5465	SureSelect LTI5500 BC1-BC96 Plate	5190-5462	SureSelect RNase Block	5972-3700	SureSelect Hyb #3	5190-4385	SureSelect Block #2	5972-3698	SureSelect Indexing Block #1	5972-3697	SureSelect LT Indexing Block #3	5190-4448	SureSelect Hyb #1	5190-4404	SureSelect Hyb #2	5190-4405	SureSelect Hyb #4	5190-4406	SureSelect Binding Buffer	5190-4407	SureSelect Wash Buffer 1	5190-4408	SureSelect Wash Buffer 2	5190-4409
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Validation date : 10/2/2014.

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

Material uses	:	<p>Analytical reagent.</p> <table border="0" style="width: 100%;"> <tr><td>10X End-Repair Buffer</td><td>1.4 ml</td></tr> <tr><td>5X T4 DNA Ligase Buffer</td><td>1.4 ml</td></tr> <tr><td>Klenow DNA Polymerase</td><td>0.286 ml</td></tr> <tr><td>T4 DNA Ligase</td><td>0.214 ml</td></tr> <tr><td>T4 DNA Polymerase</td><td>0.143 ml</td></tr> <tr><td>T4 Polynucleotide Kinase</td><td>0.315 ml</td></tr> <tr><td>dNTP Mix</td><td>0.229 ml</td></tr> <tr><td>10x Klenow Polymerase Buffer</td><td>0.81 ml</td></tr> <tr><td>Exo(-) Klenow</td><td>0.49 ml</td></tr> <tr><td>dATP</td><td>0.16 ml</td></tr> <tr><td>SureSelect LTI5500 P1</td><td>0.617 ml</td></tr> <tr><td>SureSelect LTI5500 IA</td><td>0.710 ml</td></tr> <tr><td>SureSelect LTI Pre Capture Primer</td><td>1.1 ml</td></tr> <tr><td>SureSelect LTI5500 BC1-BC96 Plate</td><td>1.44 ml (0.015 ml x 96 wells)</td></tr> <tr><td>SureSelect RNase Block</td><td>0.07 ml</td></tr> <tr><td>SureSelect Hyb #3</td><td>0.96 ml</td></tr> <tr><td>SureSelect Block #2</td><td>0.3 ml</td></tr> <tr><td>SureSelect Indexing Block #1</td><td>0.3 ml</td></tr> <tr><td>SureSelect LT Indexing Block #3</td><td>0.058 ml</td></tr> <tr><td>SureSelect Hyb #1</td><td>2.4 ml</td></tr> </table>	10X End-Repair Buffer	1.4 ml	5X T4 DNA Ligase Buffer	1.4 ml	Klenow DNA Polymerase	0.286 ml	T4 DNA Ligase	0.214 ml	T4 DNA Polymerase	0.143 ml	T4 Polynucleotide Kinase	0.315 ml	dNTP Mix	0.229 ml	10x Klenow Polymerase Buffer	0.81 ml	Exo(-) Klenow	0.49 ml	dATP	0.16 ml	SureSelect LTI5500 P1	0.617 ml	SureSelect LTI5500 IA	0.710 ml	SureSelect LTI Pre Capture Primer	1.1 ml	SureSelect LTI5500 BC1-BC96 Plate	1.44 ml (0.015 ml x 96 wells)	SureSelect RNase Block	0.07 ml	SureSelect Hyb #3	0.96 ml	SureSelect Block #2	0.3 ml	SureSelect Indexing Block #1	0.3 ml	SureSelect LT Indexing Block #3	0.058 ml	SureSelect Hyb #1	2.4 ml
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Section 1. Identification

SureSelect Hyb #2	0.096 ml
SureSelect Hyb #4	1.25 ml
SureSelect Binding Buffer	76.8 ml
SureSelect Wash Buffer 1	48 ml
SureSelect Wash Buffer 2	144 ml

[1.3 Details of the supplier of the safety data sheet](#)

Supplier/Manufacturer : Agilent Technologies, Inc.
Logistics Center - Americas
500 Ships Landing Way
New Castle, Delaware 19720
800-227-9770

[1.4 Emergency telephone number](#)

In case of emergency : CHEMTREC®: 1-800-424-9300

Section 2. Hazards identification

[2.1 Classification of the substance or mixture](#)

OSHA/HCS status :

Classification of the substance or mixture

10X End-Repair Buffer

H320 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B

5X T4 DNA Ligase Buffer

H320 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B

Klenow DNA Polymerase

H320 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B
H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

T4 DNA Ligase

H320 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B
H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

T4 DNA Polymerase

H320 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B
H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

T4 Polynucleotide Kinase

H320 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B
H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

Exo(-) Klenow

H320 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B
H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

SureSelect RNase Block

H320 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B
H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

SureSelect Hyb #1

H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A

Section 2. Hazards identification

SureSelect Hyb #4

H317 SKIN SENSITIZATION - Category 1

SureSelect Wash Buffer 1

H317 SKIN SENSITIZATION - Category 1

SureSelect Wash Buffer 2

H317 SKIN SENSITIZATION - Category 1

Ingredients of unknown toxicity	:	10X End-Repair Buffer	Percentage of the mixture consisting of ingredient (s) of unknown toxicity: 7.9%
		5X T4 DNA Ligase Buffer	Percentage of the mixture consisting of ingredient (s) of unknown toxicity: 28.9%
		Klenow DNA Polymerase	Not applicable.
		T4 DNA Ligase	Not applicable.
		T4 DNA Polymerase	Not applicable.
		T4 Polynucleotide Kinase	Not applicable.
		dNTP Mix	Percentage of the mixture consisting of ingredient (s) of unknown toxicity: 5.7%
		10x Klenow Polymerase Buffer	Percentage of the mixture consisting of ingredient (s) of unknown toxicity: 7.9%
		Exo(-) Klenow	Not applicable.
		dATP	Not applicable.
		SureSelect LTI5500 P1	Not applicable.
		SureSelect LTI5500 IA	Not applicable.
		SureSelect LTI Pre Capture Primer	Not applicable.
		SureSelect LTI5500 BC1-BC96 Plate	Not applicable.
		SureSelect RNase Block	Not applicable.
		SureSelect Hyb 3	Percentage of the mixture consisting of ingredient (s) of unknown toxicity: 3%
		SureSelect Block 2	Not applicable.
		SureSelect Indexing Block #1	Not applicable.
		SureSelect LT Indexing Block #3	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.

2.2 GHS label elements

Hazard pictograms



Signal word

:	10X End-Repair Buffer	Warning
	5X T4 DNA Ligase Buffer	Warning
	Klenow DNA Polymerase	Warning
	T4 DNA Ligase	Warning
	T4 DNA Polymerase	Warning
	T4 Polynucleotide Kinase	Warning
	dNTP Mix	No signal word.
	10x Klenow Polymerase Buffer	No signal word.
	Exo(-) Klenow	Warning
	dATP	No signal word.
	SureSelect LTI5500 P1	No signal word.

Section 2. Hazards identification

	SureSelect LTI5500 IA	No signal word.
	SureSelect LTI Pre Capture Primer	No signal word.
	SureSelect LTI5500 BC1-BC96 Plate	No signal word.
	SureSelect RNase Block	Warning
	SureSelect Hyb 3	No signal word.
	SureSelect Block 2	No signal word.
	SureSelect Indexing Block #1	No signal word.
	SureSelect LT Indexing Block #3	No signal word.
	SureSelect Hyb #1	Warning
	SureSelect Hyb #2	No signal word.
	SureSelect Hyb #4	Warning
	SureSelect Binding Buffer	No signal word.
	SureSelect Wash Buffer 1	Warning
	SureSelect Wash Buffer 2	Warning
Hazard statements	: 10X End-Repair Buffer	H320 - Causes eye irritation.
	5X T4 DNA Ligase Buffer	H320 - Causes eye irritation.
	Klenow DNA Polymerase	H320 - Causes eye irritation. H373 - May cause damage to organs through prolonged or repeated exposure.
	T4 DNA Ligase	H320 - Causes eye irritation. H373 - May cause damage to organs through prolonged or repeated exposure.
	T4 DNA Polymerase	H320 - Causes eye irritation. H373 - May cause damage to organs through prolonged or repeated exposure.
	T4 Polynucleotide Kinase	H320 - Causes eye irritation. H373 - May cause damage to organs through prolonged or repeated exposure.
	dNTP Mix	No known significant effects or critical hazards.
	10x Klenow Polymerase Buffer	No known significant effects or critical hazards.
	Exo(-) Klenow	H320 - Causes eye irritation. H373 - May cause damage to organs through prolonged or repeated exposure.
	dATP	No known significant effects or critical hazards.
	SureSelect LTI5500 P1	No known significant effects or critical hazards.
	SureSelect LTI5500 IA	No known significant effects or critical hazards.
	SureSelect LTI Pre Capture Primer	No known significant effects or critical hazards.
	SureSelect LTI5500 BC1-BC96 Plate	No known significant effects or critical hazards.
	SureSelect RNase Block	H320 - Causes eye irritation. H373 - May cause damage to organs through prolonged or repeated exposure.
	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 LT Indexing Block #3	No known significant effects or critical hazards.
	SureSelect Hyb #1	H319 - Causes serious eye irritation.
	SureSelect Hyb #2	No known significant effects or critical hazards.
	SureSelect Hyb #4	H317 - May cause an allergic skin reaction.
	SureSelect Binding Buffer	No known significant effects or critical hazards.
	SureSelect Wash Buffer 1	H317 - May cause an allergic skin reaction.
	SureSelect Wash Buffer 2	H317 - May cause an allergic skin reaction.

Precautionary statements

Section 2. Hazards identification

Prevention	: 10X End-Repair Buffer	P280 - Wear eye or face protection.
	5X T4 DNA Ligase Buffer	P264 - Wash hands thoroughly after handling. P280 - Wear eye or face protection.
	Klenow DNA Polymerase	P264 - Wash hands thoroughly after handling. P280 - Wear eye or face protection. P260 - Do not breathe vapor.
	T4 DNA Ligase	P264 - Wash hands thoroughly after handling. P280 - Wear eye or face protection. P260 - Do not breathe vapor.
	T4 DNA Polymerase	P264 - Wash hands thoroughly after handling. P280 - Wear eye or face protection. P260 - Do not breathe vapor.
	T4 Polynucleotide Kinase	P264 - Wash hands thoroughly after handling. P280 - Wear eye or face protection. P260 - Do not breathe vapor.
	dNTP Mix	P264 - Wash hands thoroughly after handling.
	10x Klenow Polymerase Buffer	Not applicable.
	Exo(-) Klenow	Not applicable.
	dATP	P280 - Wear eye or face protection. P260 - Do not breathe vapor.
	SureSelect LTI5500 P1	P264 - Wash hands thoroughly after handling.
	SureSelect LTI5500 IA	Not applicable.
	SureSelect LTI Pre Capture Primer	Not applicable.
	SureSelect LTI5500 BC1-BC96 Plate	Not applicable.
	SureSelect RNase Block	P280 - Wear eye or face protection. P260 - Do not breathe vapor. P264 - Wash hands thoroughly after handling.
	SureSelect Hyb 3	Not applicable.
	SureSelect Block 2	Not applicable.
	SureSelect Indexing Block #1	Not applicable.
	SureSelect LT Indexing Block #3	Not applicable.
	SureSelect Hyb #1	P280 - Wear eye or face protection. P264 - Wash hands thoroughly after handling.
	SureSelect Hyb #2	Not applicable.
	SureSelect Hyb #4	P280 - Wear protective gloves. P261 - Avoid breathing vapor. P272 - Contaminated work clothing should not be allowed out of the workplace.
	SureSelect Binding Buffer	Not applicable.
	SureSelect Wash Buffer 1	P280 - Wear protective gloves. P261 - Avoid breathing vapor. P272 - Contaminated work clothing should not be allowed out of the workplace.
	SureSelect Wash Buffer 2	P280 - Wear protective gloves. P261 - Avoid breathing vapor. P272 - Contaminated work clothing should not be allowed out of the workplace.
Response	: 10X End-Repair Buffer	P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention.
	5X T4 DNA Ligase Buffer	P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Section 2. Hazards identification

	Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention.
Klenow DNA Polymerase	P314 - Get medical 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 attention.
T4 DNA Ligase	P314 - Get medical 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 attention.
T4 DNA Polymerase	P314 - Get medical 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 attention.
T4 Polynucleotide Kinase	P314 - Get medical 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 attention.
dNTP Mix	Not applicable.
10x Klenow Polymerase Buffer	Not applicable.
Exo(-) Klenow	P314 - Get medical 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 attention.
dATP	Not applicable.
SureSelect LTI5500 P1	Not applicable.
SureSelect LTI5500 IA	Not applicable.
SureSelect LTI Pre Capture Primer	Not applicable.
SureSelect LTI5500 BC1-BC96 Plate	Not applicable.
SureSelect RNase Block	P314 - Get medical 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 attention.
SureSelect Hyb 3	Not applicable.
SureSelect Block 2	Not applicable.
SureSelect Indexing Block #1	Not applicable.
SureSelect LT Indexing Block #3	Not applicable.
SureSelect Hyb #1	P305 + P351 + P338 - IF IN EYES: Rinse

Section 2. Hazards identification

SureSelect Hyb #2	cautiously with water for several minutes.
SureSelect Hyb #4	Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention.
	Not applicable.
	P302 + P352 + P363 - IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse.
	P333 + P313 - If skin irritation or rash occurs: Get medical attention.
	Not applicable.
	P302 + P352 + P363 - IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse.
	P333 + P313 - If skin irritation or rash occurs: Get medical attention.
	P302 + P352 + P363 - IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse.
	P333 + P313 - If skin irritation or rash occurs: Get medical attention.

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 Buffer	Not applicable.
Exo(-) Klenow	Not applicable.
dATP	Not applicable.
SureSelect LTI5500 P1	Not applicable.
SureSelect LTI5500 IA	Not applicable.
SureSelect LTI Pre Capture Primer	Not applicable.
SureSelect LTI5500 BC1-BC96 Plate	Not applicable.
SureSelect RNase Block	Not applicable.
SureSelect Hyb 3	Not applicable.
SureSelect Block 2	Not applicable.
SureSelect Indexing Block #1	Not applicable.
SureSelect LT Indexing Block #3	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.

Disposal

: 10X End-Repair Buffer	Not applicable.
5X T4 DNA Ligase Buffer	Not applicable.
Klenow DNA Polymerase	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
T4 DNA Ligase	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
T4 DNA Polymerase	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Section 2. Hazards identification

T4 Polynucleotide Kinase	international regulations. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
dNTP Mix	Not applicable.
10x Klenow Polymerase Buffer	Not applicable.
Exo(-) Klenow	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
dATP	Not applicable.
SureSelect LTI5500 P1	Not applicable.
SureSelect LTI5500 IA	Not applicable.
SureSelect LTI Pre Capture Primer	Not applicable.
SureSelect LTI5500 BC1-BC96 Plate	Not applicable.
SureSelect RNase Block	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
SureSelect Hyb 3	Not applicable.
SureSelect Block 2	Not applicable.
SureSelect Indexing Block #1	Not applicable.
SureSelect LT Indexing Block #3	Not applicable.
SureSelect Hyb #1	Not applicable.
SureSelect Hyb #2	Not applicable.
SureSelect Hyb #4	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
SureSelect Binding Buffer	Not applicable.
SureSelect Wash Buffer 1	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
SureSelect Wash Buffer 2	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements :

2.3 Other hazards

Hazards not otherwise classified

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.
10x Klenow Polymerase Buffer	None known.
Exo(-) Klenow	None known.
dATP	None known.
SureSelect LTI5500 P1	None known.
SureSelect LTI5500 IA	None known.
SureSelect LTI Pre Capture Primer	None known.
SureSelect LTI5500 BC1-BC96 Plate	None known.
SureSelect RNase Block	None known.
SureSelect Hyb 3	None known.
SureSelect Block 2	None known.
SureSelect Indexing Block #1	None known.
SureSelect LT Indexing Block #3	None known.
SureSelect Hyb #1	None known.

Section 2. Hazards identification

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.

Section 3. Composition/information on ingredients

Substance/mixture	:	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 LTI5500 P1	Mixture
		SureSelect LTI5500 IA	Mixture
		SureSelect LTI Pre Capture Primer	Mixture
		SureSelect LTI5500 BC1-BC96 Plate	Mixture
		SureSelect RNase Block	Mixture
		SureSelect Hyb 3	Mixture
		SureSelect Block 2	Mixture
		SureSelect Indexing Block #1	Mixture
		SureSelect LT Indexing Block #3	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

Ingredient name	%	CAS number
10X End-Repair Buffer		
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	5 - 10	1185-53-1
(R*,R*)-1,4-Dimercaptobutane-2,3-diol	1 - 5	3483-12-3
Magnesium chloride, hexahydrate	1 - 5	7791-18-6
5X T4 DNA Ligase Buffer		
Polyethylene glycol	10 - 30	25322-68-3
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	1 - 5	1185-53-1
Magnesium chloride, hexahydrate	0.1 - 1	7791-18-6
Klenow DNA Polymerase		
Glycerol	30 - 60	56-81-5
T4 DNA Ligase		
Glycerol	30 - 60	56-81-5
T4 DNA Polymerase		
Glycerol	30 - 60	56-81-5
T4 Polynucleotide Kinase		
Glycerol	30 - 60	56-81-5

Section 3. Composition/information on ingredients

dNTP Mix 2'-Deoxyguanosine 5'-(tetrahydrogen triphosphate) 2'-Deoxyadenosine 5'-(tetrahydrogen triphosphate)	1 - 5 1 - 5	2564-35-4 1927-31-7
10x Klenow Polymerase Buffer 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride Magnesium chloride, hexahydrate	5 - 10 1 - 5	1185-53-1 7791-18-6
Exo(-) Klenow Glycerol	30 - 60	56-81-5
SureSelect RNase Block Glycerol	30 - 60	56-81-5
SureSelect Hyb #1 Sodium chloride Sodium dihydrogenorthophosphate	10 - 30 1 - 5	7647-14-5 7558-80-7
SureSelect Hyb #2 Disodium dihydrogen ethylenediaminetetraacetate	10 - 30	139-33-3
SureSelect Hyb #4 Sulfuric acid monododecyl ester sodium salt (1:1)	0.1 - 1	8012-56-4
SureSelect Binding Buffer Sodium chloride	5 - 10	7647-14-5
SureSelect Wash Buffer 1 Sulfuric acid monododecyl ester sodium salt (1:1)	< 0.1	8012-56-4
SureSelect Wash Buffer 2 Sulfuric acid monododecyl ester sodium salt (1:1)	< 0.1	8012-56-4

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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

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

Section 4. First aid measures

4.1 Description of necessary 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. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention. 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. If irritation persists, get medical attention. 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 following exposure or if feeling
	5X T4 DNA Ligase Buffer	
	Klenow DNA Polymerase	

Section 4. First aid measures

T4 DNA Ligase	unwell. 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 following exposure or if feeling unwell.
T4 DNA Polymerase	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 following exposure or if feeling unwell.
T4 Polynucleotide Kinase	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 following exposure or if feeling unwell.
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. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell.
dATP	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
SureSelect LTI5500 P1	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 LTI5500 IA	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 LTI Pre Capture 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 LTI5500 BC1-BC96 Plate	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. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell.

Section 4. First aid measures

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 LT 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 Hyb #1	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 #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 Hyb #4	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 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. Continue to rinse for at least 10 minutes. 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. Continue to rinse for at least 10 minutes. 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. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48

Section 4. First aid measures

5X T4 DNA Ligase Buffer

hours.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Klenow DNA Polymerase

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.

T4 DNA Ligase

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.

T4 DNA Polymerase

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.

T4 Polynucleotide Kinase

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

Section 4. First aid measures

	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.
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. 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.
dATP	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureSelect LTI5500 P1	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureSelect LTI5500 IA	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureSelect LTI Pre Capture Primer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureSelect LTI5500 BC1-BC96 Plate	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. 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.

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SureSelect Hyb 3	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.
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 LT 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 Hyb #1	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
SureSelect Hyb #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 Hyb #4	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
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. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position

Section 4. First aid measures

and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

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.

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.

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.

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.

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

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

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

Skin contact

: 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

Section 4. First aid measures

dATP	unwell. Wash clothing before reuse. Clean shoes thoroughly before reuse. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect LTI5500 P1	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect LTI5500 IA	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect LTI Pre Capture Primer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect LTI5500 BC1-BC96 Plate	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. 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 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 LT Indexing Block #3	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 contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
SureSelect Hyb #2	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect Hyb #4	Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
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	Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the

Section 4. First aid measures

event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

SureSelect Wash Buffer 2

Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: 10X End-Repair Buffer

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

5X T4 DNA Ligase Buffer

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Klenow DNA Polymerase

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention 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.

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T4 DNA Ligase

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention 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.

T4 DNA Polymerase

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention 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.

T4 Polynucleotide Kinase

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention 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.

dNTP Mix

Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

10x Klenow Polymerase Buffer

Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small

Section 4. First aid measures

Exo(-) Klenow	<p>quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.</p> <p>Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention 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.</p>
dATP	<p>Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.</p>
SureSelect LTI5500 P1	<p>Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.</p>
SureSelect LTI5500 IA	<p>Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.</p>
SureSelect LTI Pre Capture Primer	<p>Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.</p>
SureSelect LTI5500 BC1-BC96 Plate	<p>Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.</p>
SureSelect RNase Block	<p>Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink.</p>

Section 4. First aid measures

	<p>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.</p>
SureSelect Hyb 3	<p>Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.</p>
SureSelect Block 2	<p>Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.</p>
SureSelect Indexing Block #1	<p>Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.</p>
SureSelect LT Indexing Block #3	<p>Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.</p>
SureSelect Hyb #1	<p>Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.</p>
SureSelect Hyb #2	<p>Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small</p>

Section 4. First aid measures

SureSelect Hyb #4

quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

SureSelect Binding Buffer

Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

SureSelect Wash Buffer 1

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

SureSelect Wash Buffer 2

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Section 4. First aid measures

4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact

: 10X End-Repair Buffer	Causes eye irritation.
5X T4 DNA Ligase Buffer	Causes eye irritation.
Klenow DNA Polymerase	Causes eye irritation.
T4 DNA Ligase	Causes eye irritation.
T4 DNA Polymerase	Causes eye irritation.
T4 Polynucleotide Kinase	Causes eye irritation.
dNTP Mix	No known significant effects or critical hazards.
10x Klenow Polymerase Buffer	No known significant effects or critical hazards.
Exo(-) Klenow	Causes eye irritation.
dATP	No known significant effects or critical hazards.
SureSelect LTI5500 P1	No known significant effects or critical hazards.
SureSelect LTI5500 IA	No known significant effects or critical hazards.
SureSelect LTI Pre Capture Primer	No known significant effects or critical hazards.
SureSelect LTI5500 BC1-BC96	No known significant effects or critical hazards.
Plate	
SureSelect RNase Block	Causes eye irritation.
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 LT Indexing Block #3	No known significant effects or critical hazards.
SureSelect Hyb #1	Causes serious eye irritation.
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.

Inhalation

: 10X End-Repair Buffer	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
5X T4 DNA Ligase Buffer	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
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	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
10x Klenow Polymerase Buffer	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Exo(-) Klenow	No known significant effects or critical hazards.
dATP	No known significant effects or critical hazards.
SureSelect LTI5500 P1	No known significant effects or critical hazards.
SureSelect LTI5500 IA	No known significant effects or critical hazards.
SureSelect LTI Pre Capture Primer	No known significant effects or critical hazards.
SureSelect LTI5500 BC1-BC96	No known significant effects or critical hazards.
Plate	
SureSelect RNase Block	No known significant effects or critical hazards.
SureSelect Hyb 3	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
SureSelect Block 2	No known significant effects or critical hazards.
SureSelect Indexing Block #1	No known significant effects or critical hazards.
SureSelect LT Indexing Block #3	No known significant effects or critical hazards.

Section 4. First aid measures

	SureSelect Hyb #1	No known significant effects or critical hazards.
	SureSelect Hyb #2	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following 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.
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 LTI5500 P1	No known significant effects or critical hazards.
	SureSelect LTI5500 IA	No known significant effects or critical hazards.
	SureSelect LTI Pre Capture Primer	No known significant effects or critical hazards.
	SureSelect LTI5500 BC1-BC96 Plate	No known significant effects or critical hazards.
	SureSelect RNase Block	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 LT Indexing Block #3	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	May cause an allergic skin reaction.
	SureSelect Binding Buffer	No known significant effects or critical hazards.
	SureSelect Wash Buffer 1	May cause an allergic skin reaction.
	SureSelect Wash Buffer 2	May cause an allergic skin reaction.
Ingestion	: 10X End-Repair Buffer	May be irritating to mouth, throat and stomach.
	5X T4 DNA Ligase Buffer	May be irritating to mouth, throat and stomach.
	Klenow DNA Polymerase	May be irritating to mouth, throat and stomach.
	T4 DNA Ligase	May be irritating to mouth, throat and stomach.
	T4 DNA Polymerase	May be irritating to mouth, throat and stomach.
	T4 Polynucleotide Kinase	May be irritating to mouth, throat and stomach.
	dNTP Mix	No known significant effects or critical hazards.
	10x Klenow Polymerase Buffer	No known significant effects or critical hazards.
	Exo(-) Klenow	May be irritating to mouth, throat and stomach.
	dATP	No known significant effects or critical hazards.
	SureSelect LTI5500 P1	No known significant effects or critical hazards.
	SureSelect LTI5500 IA	No known significant effects or critical hazards.
	SureSelect LTI Pre Capture Primer	No known significant effects or critical hazards.
	SureSelect LTI5500 BC1-BC96 Plate	No known significant effects or critical hazards.
	SureSelect RNase Block	May be irritating to mouth, throat and stomach.
	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 LT Indexing Block #3	No known significant effects or critical hazards.
	SureSelect Hyb #1	Irritating to mouth, throat and stomach.
	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.

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	SureSelect Wash Buffer 2	No known significant effects or critical hazards.
<u>Over-exposure signs/symptoms</u>		
Eye contact	: 10X End-Repair Buffer	Adverse symptoms may include the following: irritation watering redness
	5X T4 DNA Ligase Buffer	Adverse symptoms may include the following: irritation watering redness
	Klenow DNA Polymerase	Adverse symptoms may include the following: irritation watering redness
	T4 DNA Ligase	Adverse symptoms may include the following: irritation watering redness
	T4 DNA Polymerase	Adverse symptoms may include the following: irritation watering redness
	T4 Polynucleotide Kinase	Adverse symptoms may include the following: irritation watering redness
	dNTP Mix	No specific data.
	10x Klenow Polymerase Buffer	No specific data.
	Exo(-) Klenow	Adverse symptoms may include the following: irritation watering redness
	dATP	No specific data.
	SureSelect LTI5500 P1	No specific data.
	SureSelect LTI5500 IA	No specific data.
	SureSelect LTI Pre Capture Primer	No specific data.
	SureSelect LTI5500 BC1-BC96 Plate	No specific data.
	SureSelect RNase Block	Adverse symptoms may include the following: irritation watering redness
	SureSelect Hyb 3	No specific data.
	SureSelect Block 2	No specific data.
	SureSelect Indexing Block #1	No specific data.
	SureSelect LT Indexing Block #3	No specific data.
	SureSelect Hyb #1	Adverse symptoms may include the following: pain or irritation watering redness
	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.

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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	No specific data.
		dATP	No specific data.
		SureSelect LTI5500 P1	No specific data.
		SureSelect LTI5500 IA	No specific data.
		SureSelect LTI Pre Capture Primer	No specific data.
		SureSelect LTI5500 BC1-BC96 Plate	No specific data.
		SureSelect RNase Block	No specific data.
		SureSelect Hyb 3	No specific data.
		SureSelect Block 2	No specific data.
		SureSelect Indexing Block #1	No specific data.
		SureSelect LT Indexing Block #3	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.	
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	No specific data.
		dATP	No specific data.
		SureSelect LTI5500 P1	No specific data.
		SureSelect LTI5500 IA	No specific data.
		SureSelect LTI Pre Capture Primer	No specific data.
		SureSelect LTI5500 BC1-BC96 Plate	No specific data.
		SureSelect RNase Block	No specific data.
		SureSelect Hyb 3	No specific data.
		SureSelect Block 2	No specific data.
		SureSelect Indexing Block #1	No specific data.
		SureSelect LT Indexing Block #3	No specific data.
		SureSelect Hyb #1	No specific data.
		SureSelect Hyb #2	No specific data.
		SureSelect Hyb #4	Adverse symptoms may include the following: irritation redness
		SureSelect Binding Buffer	No specific data.
	SureSelect Wash Buffer 1	Adverse symptoms may include the following: irritation redness	
	SureSelect Wash Buffer 2	Adverse symptoms may include the following: irritation redness	

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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 Buffer	No specific data.
		Exo(-) Klenow	No specific data.
		dATP	No specific data.
		SureSelect LTI5500 P1	No specific data.
		SureSelect LTI5500 IA	No specific data.
		SureSelect LTI Pre Capture Primer	No specific data.
		SureSelect LTI5500 BC1-BC96 Plate	No specific data.
		SureSelect RNase Block	No specific data.
		SureSelect Hyb 3	No specific data.
		SureSelect Block 2	No specific data.
		SureSelect Indexing Block #1	No specific data.
		SureSelect LT Indexing Block #3	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.

4.3 Indication of immediate medical attention and special treatment needed, if necessary

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 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.
		Exo(-) Klenow	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been

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dATP	ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
SureSelect LTI5500 P1	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
SureSelect LTI5500 IA	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
SureSelect LTI Pre Capture Primer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
SureSelect LTI5500 BC1-BC96 Plate	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 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	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
SureSelect Indexing Block #1	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
SureSelect LT Indexing Block #3	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.
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.

Section 4. First aid measures

Exo(-) Klenow	No specific treatment.
dATP	No specific treatment.
SureSelect LTI5500 P1	No specific treatment.
SureSelect LTI5500 IA	No specific treatment.
SureSelect LTI Pre Capture Primer	No specific treatment.
SureSelect LTI5500 BC1-BC96 Plate	No specific treatment.
SureSelect RNase Block	No specific treatment.
SureSelect Hyb 3	No specific treatment.
SureSelect Block 2	No specific treatment.
SureSelect Indexing Block #1	No specific treatment.
SureSelect LT Indexing Block #3	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.

Protection of first-aiders	:	10X End-Repair Buffer	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
		5X T4 DNA Ligase Buffer	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
		Klenow DNA Polymerase	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.
		T4 DNA Ligase	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.
		T4 DNA Polymerase	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.
		T4 Polynucleotide Kinase	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.
		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. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
		dATP	No action shall be taken involving any personal risk or without suitable training.
		SureSelect LTI5500 P1	No action shall be taken involving any personal risk or without suitable training.
		SureSelect LTI5500 IA	No action shall be taken involving any personal risk or without suitable training.
		SureSelect LTI Pre Capture Primer	No action shall be taken involving any personal risk or without suitable training.
		SureSelect LTI5500 BC1-BC96	No action shall be taken involving any personal risk

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Plate	or without suitable training.
SureSelect RNase Block	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 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 LT Indexing Block #3	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. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
SureSelect Hyb #2	No action shall be taken involving any personal risk or without suitable training.
SureSelect Hyb #4	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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
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. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
SureSelect Wash Buffer 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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	: 10X End-Repair Buffer	Use an extinguishing agent suitable for the surrounding fire.
	5X T4 DNA Ligase Buffer	Use an extinguishing agent suitable for the surrounding fire.
	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.

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10x Klenow Polymerase Buffer	Use an extinguishing agent suitable for the surrounding fire.
Exo(-) Klenow	Use an extinguishing agent suitable for the surrounding fire.
dATP	Use an extinguishing agent suitable for the surrounding fire.
SureSelect LTI5500 P1	Use an extinguishing agent suitable for the surrounding fire.
SureSelect LTI5500 IA	Use an extinguishing agent suitable for the surrounding fire.
SureSelect LTI Pre Capture Primer	Use an extinguishing agent suitable for the surrounding fire.
SureSelect LTI5500 BC1-BC96 Plate	Use an extinguishing agent suitable for the surrounding fire.
SureSelect RNase Block	Use an extinguishing agent suitable for the surrounding fire.
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 LT Indexing Block #3	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.

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.
10x Klenow Polymerase Buffer	None known.
Exo(-) Klenow	None known.
dATP	None known.
SureSelect LTI5500 P1	None known.
SureSelect LTI5500 IA	None known.
SureSelect LTI Pre Capture Primer	None known.
SureSelect LTI5500 BC1-BC96 Plate	None known.
SureSelect RNase Block	None known.
SureSelect Hyb 3	None known.
SureSelect Block 2	None known.
SureSelect Indexing Block #1	None known.
SureSelect LT Indexing Block #3	None known.
SureSelect Hyb #1	None known.
SureSelect Hyb #2	None known.
SureSelect Hyb #4	None known.

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SureSelect Binding Buffer	None known.
SureSelect Wash Buffer 1	None known.
SureSelect Wash Buffer 2	None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards arising from the chemical

: 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 LTI5500 P1	In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect LTI5500 IA	In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect LTI Pre Capture Primer	In a fire or if heated, a pressure increase will occur and the container may burst.
SureSelect LTI5500 BC1-BC96 Plate	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 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 LT Indexing Block #3	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.
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.

Hazardous thermal decomposition products :

Section 5. Fire-fighting measures

5.3 Advice for firefighters

Special protective actions 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 taken involving any personal risk or without suitable training.
T4 DNA Polymerase	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
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 LTI5500 P1	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 LTI5500 IA	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 LTI Pre Capture 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 LTI5500 BC1-BC96 Plate	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

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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 LT 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 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.

Special protective equipment for fire-fighters

: 10X End-Repair Buffer

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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.

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.

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.

T4 DNA Polymerase

Fire-fighters should wear appropriate protective

Section 5. Fire-fighting measures

	equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
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.
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.
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.
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.
dATP	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SureSelect LTI5500 P1	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SureSelect LTI5500 IA	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SureSelect LTI Pre Capture Primer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
SureSelect LTI5500 BC1-BC96 Plate	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
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.
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.
SureSelect Block 2	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
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.
SureSelect LT 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.

Section 5. Fire-fighting measures

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.
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.
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.
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.
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.
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.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel :
- For emergency responders :

6.2 Environmental precautions

10X End-Repair Buffer	Avoid dispersal of spilled 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 spilled 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 spilled 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 spilled 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 spilled 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 spilled material and runoff and

Section 6. Accidental release measures

	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 spilled 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 spilled 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 spilled 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 spilled 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 LTI5500 P1	Avoid dispersal of spilled 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 LTI5500 IA	Avoid dispersal of spilled 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 LTI Pre Capture Primer	Avoid dispersal of spilled 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 LTI5500 BC1-BC96 Plate	Avoid dispersal of spilled 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 spilled 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 spilled 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 spilled 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).

Section 6. Accidental release measures

SureSelect Indexing Block #1	Avoid dispersal of spilled 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 LT Indexing Block #3	Avoid dispersal of spilled 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 #1	Avoid dispersal of spilled 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 spilled 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 spilled 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 spilled 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 spilled 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 spilled 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 materials for containment and 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.

Section 6. Accidental release measures

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 LTI5500 P1	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 LTI5500 IA	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 LTI Pre Capture 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 LTI5500 BC1-BC96 Plate	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 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 LT 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.

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SureSelect Hyb #1	disposal container. Dispose of via a licensed waste disposal contractor. Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
SureSelect Hyb #2	disposal container. Dispose of via a licensed waste disposal contractor. Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
SureSelect Hyb #4	disposal container. Dispose of via a licensed waste disposal contractor. Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
SureSelect Binding Buffer	disposal container. Dispose of via a licensed waste disposal contractor. Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
SureSelect Wash Buffer 1	disposal container. Dispose of via a licensed waste disposal contractor. Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
SureSelect Wash Buffer 2	disposal container. Dispose of via a licensed waste disposal contractor. Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

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). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
	5X T4 DNA Ligase Buffer	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
	Klenow DNA Polymerase	Put on appropriate personal protective equipment (see Section 8). Do not breathe vapor 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.
	T4 DNA Ligase	Put on appropriate personal protective equipment (see Section 8). Do not breathe vapor 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.

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T4 DNA Polymerase	Empty containers retain product residue and can be hazardous. Do not reuse container. Put on appropriate personal protective equipment (see Section 8). Do not breathe vapor 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.
T4 Polynucleotide Kinase	Put on appropriate personal protective equipment (see Section 8). Do not breathe vapor 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.
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). Do not breathe vapor 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.
dATP	Put on appropriate personal protective equipment (see Section 8).
SureSelect LTI5500 P1	Put on appropriate personal protective equipment (see Section 8).
SureSelect LTI5500 IA	Put on appropriate personal protective equipment (see Section 8).
SureSelect LTI Pre Capture Primer	Put on appropriate personal protective equipment (see Section 8).
SureSelect LTI5500 BC1-BC96 Plate	Put on appropriate personal protective equipment (see Section 8).
SureSelect RNase Block	Put on appropriate personal protective equipment (see Section 8). Do not breathe vapor 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 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 LT Indexing Block #3	Put on appropriate personal protective equipment (see Section 8).
SureSelect Hyb #1	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing

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SureSelect Hyb #2

vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use.

Empty containers retain product residue and can be hazardous. Do not reuse container.

Put on appropriate personal protective equipment (see Section 8).

SureSelect Hyb #4

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest.

Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

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). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest.

Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

SureSelect Wash Buffer 2

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest.

Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

- : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

- : 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 unlabeled containers. Use appropriate containment to avoid environmental

Section 7. Handling and storage

5X T4 DNA Ligase Buffer

contamination.

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 unlabeled containers. Use appropriate containment to avoid environmental contamination.

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 unlabeled containers. Use appropriate containment to avoid environmental contamination.

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 unlabeled containers. Use appropriate containment to avoid environmental contamination.

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 unlabeled containers. Use appropriate containment to avoid environmental contamination.

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 unlabeled containers. Use appropriate containment to avoid environmental contamination.

dNTP Mix

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from

Section 7. Handling and storage

	<p>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 unlabeled containers. Use appropriate containment to avoid environmental contamination.</p>
10x Klenow Polymerase Buffer	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.</p>
Exo(-) Klenow	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.</p>
dATP	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.</p>
SureSelect LTI5500 P1	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.</p>
SureSelect LTI5500 IA	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept</p>

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	upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.
SureSelect LTI Pre Capture 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 unlabeled containers. Use appropriate containment to avoid environmental contamination.
SureSelect LTI5500 BC1-BC96 Plate	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 unlabeled containers. Use appropriate containment to avoid environmental contamination.
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 unlabeled containers. Use appropriate containment to avoid environmental contamination.
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 unlabeled containers. Use appropriate containment to avoid environmental contamination.
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 unlabeled containers. Use appropriate containment to avoid environmental contamination.

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SureSelect Indexing Block #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 unlabeled containers. Use appropriate containment to avoid environmental contamination.
SureSelect LT 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 unlabeled containers. Use appropriate containment to avoid environmental contamination.
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 unlabeled containers. Use appropriate containment to avoid environmental contamination.
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 unlabeled containers. Use appropriate containment to avoid environmental contamination.
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 unlabeled containers. Use appropriate containment to avoid environmental contamination.
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

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SureSelect Wash Buffer 1	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 unlabeled containers. Use appropriate containment to avoid environmental contamination. 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 unlabeled containers. Use appropriate containment to avoid environmental contamination.
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 unlabeled containers. Use appropriate containment to avoid environmental contamination.

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 LTI5500 P1	Industrial applications, Professional applications.
SureSelect LTI5500 IA	Industrial applications, Professional applications.
SureSelect LTI Pre Capture Primer	Industrial applications, Professional applications.
SureSelect LTI5500 BC1-BC96 Plate	Industrial applications, Professional applications.
SureSelect RNase Block	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 LT Indexing Block #3	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.

Section 7. Handling and storage

SureSelect Binding Buffer	Industrial applications, Professional applications.
SureSelect Wash Buffer 1	Industrial applications, Professional applications.
SureSelect Wash Buffer 2	Industrial applications, Professional applications.

Industrial sector specific solutions : Not applicable.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
5X T4 DNA Ligase Buffer Polyethylene glycol Klenow DNA Polymerase Glycerol	AIHA WEEL (United States, 5/2010). TWA: 10 mg/m ³ 8 hours. Form: Aerosol OSHA PEL (United States, 2/2013). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 15 mg/m ³ 8 hours. Form: Total dust OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 10 mg/m ³ 8 hours. Form: Total dust
T4 DNA Ligase Glycerol	OSHA PEL (United States, 2/2013). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 15 mg/m ³ 8 hours. Form: Total dust OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 10 mg/m ³ 8 hours. Form: Total dust
T4 DNA Polymerase Glycerol	OSHA PEL (United States, 2/2013). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 15 mg/m ³ 8 hours. Form: Total dust OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 10 mg/m ³ 8 hours. Form: Total dust
T4 Polynucleotide Kinase Glycerol	OSHA PEL (United States, 2/2013). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 15 mg/m ³ 8 hours. Form: Total dust OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 10 mg/m ³ 8 hours. Form: Total dust
Exo(-) Klenow Glycerol	OSHA PEL (United States, 2/2013). TWA: 5 mg/m ³ 8 hours. Form: Respirable

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SureSelect RNase Block
Glycerol

fraction
TWA: 15 mg/m³ 8 hours. Form: Total dust
OSHA PEL 1989 (United States, 3/1989).
TWA: 5 mg/m³ 8 hours. Form: Respirable fraction
fraction
TWA: 10 mg/m³ 8 hours. Form: Total dust
OSHA PEL (United States, 2/2013).
TWA: 5 mg/m³ 8 hours. Form: Respirable fraction
fraction
TWA: 15 mg/m³ 8 hours. Form: Total dust
OSHA PEL 1989 (United States, 3/1989).
TWA: 5 mg/m³ 8 hours. Form: Respirable fraction
fraction
TWA: 10 mg/m³ 8 hours. Form: Total dust

8.2 Exposure controls

Appropriate engineering controls

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

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.

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: chemical splash goggles.

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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection

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

Other skin protection

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

Respiratory protection

: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	: 10X End-Repair Buffer	Liquid.	
	5X T4 DNA Ligase Buffer	Liquid.	
	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 LTI5500 P1	Liquid.	
	SureSelect LTI5500 IA	Liquid.	
	SureSelect LTI Pre Capture Primer	Liquid.	
	SureSelect LTI5500 BC1-BC96 Plate	Liquid.	
	SureSelect RNase Block	Liquid.	
	SureSelect Hyb 3	Liquid.	
	SureSelect Block 2	Liquid.	
	SureSelect Indexing Block #1	Liquid.	
	SureSelect LT Indexing Block #3	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.	
	Color	: 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 LTI5500 P1		Not available.	
SureSelect LTI5500 IA		Not available.	
SureSelect LTI Pre Capture Primer		Not available.	
SureSelect LTI5500 BC1-BC96 Plate		Not available.	
SureSelect RNase Block		Not available.	
SureSelect Hyb 3		Not available.	
SureSelect Block 2		Colorless.	
SureSelect Indexing Block #1		Not available.	
SureSelect LT Indexing Block #3		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.	

Section 9. Physical and chemical properties

Odor	:	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 LTI5500 P1	Not available.
		SureSelect LTI5500 IA	Not available.
		SureSelect LTI Pre Capture Primer	Not available.
		SureSelect LTI5500 BC1-BC96 Plate	Not available.
		SureSelect RNase Block	Not available.
		SureSelect Hyb 3	Not available.
		SureSelect Block 2	Odorless.
		SureSelect Indexing Block #1	Not available.
		SureSelect LT Indexing Block #3	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.
Odor 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 LTI5500 P1	Not available.
		SureSelect LTI5500 IA	Not available.
		SureSelect LTI Pre Capture Primer	Not available.
		SureSelect LTI5500 BC1-BC96 Plate	Not available.
		SureSelect RNase Block	Not available.
		SureSelect Hyb 3	Not available.
		SureSelect Block 2	Not available.
		SureSelect Indexing Block #1	Not available.
		SureSelect LT Indexing Block #3	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.
pH	:		

Section 9. Physical and chemical properties

10X End-Repair Buffer	7.5
5X T4 DNA Ligase Buffer	7.5
Klenow DNA Polymerase	7
T4 DNA Ligase	7.4
T4 DNA Polymerase	6.5
T4 Polynucleotide Kinase	7.4
dNTP Mix	7.5
10x Klenow Polymerase Buffer	7.5
Exo(-) Klenow	7
dATP	Not available.
SureSelect LTI5500 P1	Not available.
SureSelect LTI5500 IA	Not available.
SureSelect LTI Pre Capture Primer	Not available.
SureSelect LTI5500 BC1-BC96 Plate	Not available.
SureSelect RNase Block	Not available.
SureSelect Hyb 3	7 to 8
SureSelect Block 2	Not available.
SureSelect Indexing Block #1	Not available.
SureSelect LT Indexing Block #3	Not available.
SureSelect Hyb #1	7.4
SureSelect Hyb #2	8
SureSelect Hyb #4	5.2 to 6.2
SureSelect Binding Buffer	7.1 to 8.1
SureSelect Wash Buffer 1	6.5 to 7.5
SureSelect Wash Buffer 2	6.8 to 7.8
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	0°C (32°F)
10x Klenow Polymerase Buffer	Not available.
Exo(-) Klenow	Not available.
dATP	0°C (32°F)
SureSelect LTI5500 P1	0°C (32°F)
SureSelect LTI5500 IA	0°C (32°F)
SureSelect LTI Pre Capture Primer	0°C (32°F)
SureSelect LTI5500 BC1-BC96 Plate	0°C (32°F)
SureSelect RNase Block	Not available.
SureSelect Hyb 3	0°C (32°F)
SureSelect Block 2	0°C (32°F)
SureSelect Indexing Block #1	0°C (32°F)
SureSelect LT Indexing Block #3	0°C (32°F)
SureSelect Hyb #1	Not available.
SureSelect Hyb #2	Not available.
SureSelect Hyb #4	0°C (32°F)
SureSelect Binding Buffer	Not available.
SureSelect Wash Buffer 1	0°C (32°F)
SureSelect Wash Buffer 2	0°C (32°F)

Melting point

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	0°C (32°F)
10x Klenow Polymerase Buffer	Not available.
Exo(-) Klenow	Not available.
dATP	0°C (32°F)
SureSelect LTI5500 P1	0°C (32°F)
SureSelect LTI5500 IA	0°C (32°F)
SureSelect LTI Pre Capture Primer	0°C (32°F)
SureSelect LTI5500 BC1-BC96 Plate	0°C (32°F)
SureSelect RNase Block	Not available.
SureSelect Hyb 3	0°C (32°F)
SureSelect Block 2	0°C (32°F)
SureSelect Indexing Block #1	0°C (32°F)
SureSelect LT Indexing Block #3	0°C (32°F)
SureSelect Hyb #1	Not available.
SureSelect Hyb #2	Not available.
SureSelect Hyb #4	0°C (32°F)
SureSelect Binding Buffer	Not available.
SureSelect Wash Buffer 1	0°C (32°F)
SureSelect Wash Buffer 2	0°C (32°F)

Section 9. Physical and chemical properties

Boiling point	:	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	100°C (212°F)
		10x Klenow Polymerase Buffer	Not available.
		Exo(-) Klenow	Not available.
		dATP	100°C (212°F)
		SureSelect LTI5500 P1	100°C (212°F)
		SureSelect LTI5500 IA	100°C (212°F)
		SureSelect LTI Pre Capture Primer	100°C (212°F)
		SureSelect LTI5500 BC1-BC96 Plate	100°C (212°F)
		SureSelect RNase Block	Not available.
		SureSelect Hyb 3	100°C (212°F)
		SureSelect Block 2	100°C (212°F)
		SureSelect Indexing Block #1	100°C (212°F)
		SureSelect LT Indexing Block #3	100°C (212°F)
		SureSelect Hyb #1	Not available.
		SureSelect Hyb #2	Not available.
		SureSelect Hyb #4	100°C (212°F)
		SureSelect Binding Buffer	Not available.
		SureSelect Wash Buffer 1	100°C (212°F)
		SureSelect Wash Buffer 2	100°C (212°F)
Flash point	:	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 LTI5500 P1	Not available.
		SureSelect LTI5500 IA	Not available.
		SureSelect LTI Pre Capture Primer	Not available.
		SureSelect LTI5500 BC1-BC96 Plate	Not available.
		SureSelect RNase Block	Not available.
		SureSelect Hyb 3	Not available.
		SureSelect Block 2	Not available.
		SureSelect Indexing Block #1	Not available.
		SureSelect LT Indexing Block #3	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.

Section 9. Physical and chemical properties

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 Buffer	Not available.	
		Exo(-) Klenow	Not available.	
		dATP	Not available.	
		SureSelect LTI5500 P1	Not available.	
		SureSelect LTI5500 IA	Not available.	
		SureSelect LTI Pre Capture Primer	Not available.	
		SureSelect LTI5500 BC1-BC96 Plate	Not available.	
		SureSelect RNase Block	Not available.	
		SureSelect Hyb 3	Not available.	
		SureSelect Block 2	Not available.	
		SureSelect Indexing Block #1	Not available.	
		SureSelect LT Indexing Block #3	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.	
	Flammability (solid, gas)	:	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 LTI5500 P1	Not applicable.	
		SureSelect LTI5500 IA	Not applicable.	
		SureSelect LTI Pre Capture Primer	Not applicable.	
		SureSelect LTI5500 BC1-BC96 Plate	Not applicable.	
		SureSelect RNase Block	Not applicable.	
		SureSelect Hyb 3	Not applicable.	
		SureSelect Block 2	Not applicable.	
		SureSelect Indexing Block #1	Not applicable.	
		SureSelect LT Indexing Block #3	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.	

Section 9. Physical and chemical properties

Lower and upper explosive (flammable) 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 LTI5500 P1	Not available.
		SureSelect LTI5500 IA	Not available.
		SureSelect LTI Pre Capture Primer	Not available.
		SureSelect LTI5500 BC1-BC96 Plate	Not available.
		SureSelect RNase Block	Not available.
		SureSelect Hyb 3	Not available.
		SureSelect Block 2	Not available.
		SureSelect Indexing Block #1	Not available.
		SureSelect LT Indexing Block #3	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.
	Vapor pressure	:	10X End-Repair Buffer
		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 LTI5500 P1	Not available.
		SureSelect LTI5500 IA	Not available.
		SureSelect LTI Pre Capture Primer	Not available.
		SureSelect LTI5500 BC1-BC96 Plate	Not available.
		SureSelect RNase Block	Not available.
		SureSelect Hyb 3	Not available.
		SureSelect Block 2	Not available.
		SureSelect Indexing Block #1	Not available.
		SureSelect LT Indexing Block #3	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.
Vapor density		:	

Section 9. Physical and chemical properties

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 LTI5500 P1	Not available.
SureSelect LTI5500 IA	Not available.
SureSelect LTI Pre Capture Primer	Not available.
SureSelect LTI5500 BC1-BC96 Plate	Not available.
SureSelect RNase Block	Not available.
SureSelect Hyb 3	Not available.
SureSelect Block 2	Not available.
SureSelect Indexing Block #1	Not available.
SureSelect LT Indexing Block #3	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.
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 LTI5500 P1	Not available.
SureSelect LTI5500 IA	Not available.
SureSelect LTI Pre Capture Primer	Not available.
SureSelect LTI5500 BC1-BC96 Plate	Not available.
SureSelect RNase Block	Not available.
SureSelect Hyb 3	Not available.
SureSelect Block 2	Not available.
SureSelect Indexing Block #1	Not available.
SureSelect LT Indexing Block #3	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.

Relative density

:

Section 9. Physical and chemical properties

Solubility	:	10X End-Repair Buffer	Easily soluble in the following materials: cold water and hot water.
		5X T4 DNA Ligase Buffer	Easily soluble in the following materials: cold water and hot water.
		Klenow DNA Polymerase	Soluble in the following materials: cold water and hot water.
		T4 DNA Ligase	Soluble in the following materials: cold water and hot water.
		T4 DNA Polymerase	Soluble in the following materials: cold water and hot water.
		T4 Polynucleotide Kinase	Soluble in the following materials: cold water and hot water.
		dNTP Mix	Easily soluble in the following materials: cold water and hot water.
		10x Klenow Polymerase Buffer	Easily soluble in the following materials: cold water and hot water.
		Exo(-) Klenow	Soluble in the following materials: cold water and hot water.
		dATP	Easily soluble in the following materials: cold water and hot water.
		SureSelect LTI5500 P1	Easily soluble in the following materials: cold water and hot water.
		SureSelect LTI5500 IA	Easily soluble in the following materials: cold water and hot water.
		SureSelect LTI Pre Capture Primer	Easily soluble in the following materials: cold water and hot water.
		SureSelect LTI5500 BC1-BC96 Plate	Easily soluble in the following materials: cold water and hot water.
		SureSelect RNase Block	Soluble in the following materials: cold water and hot water.
		SureSelect Hyb 3	Easily soluble in the following materials: cold water and hot water.
		SureSelect Block 2	Easily soluble in the following materials: cold water and hot water.
		SureSelect Indexing Block #1	Easily soluble in the following materials: cold water and hot water.
		SureSelect LT Indexing Block #3	Easily soluble in the following materials: cold water and hot water.
		SureSelect Hyb #1	Easily soluble in the following materials: cold water and hot water.
		SureSelect Hyb #2	Easily soluble in the following materials: cold water and hot water.
		SureSelect Hyb #4	Easily soluble in the following materials: cold water and hot water.
		SureSelect Binding Buffer	Easily soluble in the following materials: cold water and hot water.
		SureSelect Wash Buffer 1	Easily soluble in the following materials: cold water and hot water.
		SureSelect Wash Buffer 2	Easily soluble in the following materials: cold water and hot water.

Solubility in water :

Partition coefficient: n-octanol/water :

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.

Section 9. Physical and chemical properties

	Exo(-) Klenow	Not available.
	dATP	Not available.
	SureSelect LTI5500 P1	Not available.
	SureSelect LTI5500 IA	Not available.
	SureSelect LTI Pre Capture Primer	Not available.
	SureSelect LTI5500 BC1-BC96 Plate	Not available.
	SureSelect RNase Block	Not available.
	SureSelect Hyb 3	Not available.
	SureSelect Block 2	Not available.
	SureSelect Indexing Block #1	Not available.
	SureSelect LT Indexing Block #3	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.
Auto-ignition 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	Not available.
	dATP	Not available.
	SureSelect LTI5500 P1	Not available.
	SureSelect LTI5500 IA	Not available.
	SureSelect LTI Pre Capture Primer	Not available.
	SureSelect LTI5500 BC1-BC96 Plate	Not available.
	SureSelect RNase Block	Not available.
	SureSelect Hyb 3	Not available.
	SureSelect Block 2	Not available.
	SureSelect Indexing Block #1	Not available.
	SureSelect LT Indexing Block #3	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.
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	Not available.
	dATP	Not available.
	SureSelect LTI5500 P1	Not available.
	SureSelect LTI5500 IA	Not available.
	SureSelect LTI Pre Capture Primer	Not available.
	SureSelect LTI5500 BC1-BC96 Plate	Not available.

Section 9. Physical and chemical properties

	SureSelect RNase Block	Not available.
	SureSelect Hyb 3	Not available.
	SureSelect Block 2	Not available.
	SureSelect Indexing Block #1	Not available.
	SureSelect LT Indexing Block #3	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.
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 Buffer	Not available.
	Exo(-) Klenow	Not available.
	dATP	Not available.
	SureSelect LTI5500 P1	Not available.
	SureSelect LTI5500 IA	Not available.
	SureSelect LTI Pre Capture Primer	Not available.
	SureSelect LTI5500 BC1-BC96 Plate	Not available.
	SureSelect RNase Block	Not available.
	SureSelect Hyb 3	Not available.
	SureSelect Block 2	Not available.
	SureSelect Indexing Block #1	Not available.
	SureSelect LT Indexing Block #3	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.

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

Section 10. Stability and reactivity

SureSelect LTI5500 P1	for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
SureSelect LTI5500 IA	No specific test data related to reactivity available for this product or its ingredients.
SureSelect LTI Pre Capture Primer	No specific test data related to reactivity available for this product or its ingredients.
SureSelect LTI5500 BC1-BC96 Plate	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 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 LT Indexing Block #3	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.

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 LTI5500 P1	The product is stable.
SureSelect LTI5500 IA	The product is stable.
SureSelect LTI Pre Capture Primer	The product is stable.
SureSelect LTI5500 BC1-BC96 Plate	The product is stable.
SureSelect RNase Block	The product is stable.
SureSelect Hyb 3	The product is stable.
SureSelect Block 2	The product is stable.
SureSelect Indexing Block #1	The product is stable.
SureSelect LT Indexing Block #3	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.

Section 10. Stability and reactivity

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 LTI5500 P1	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect LTI5500 IA	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect LTI Pre Capture Primer	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect LTI5500 BC1-BC96 Plate	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 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 LT Indexing Block #3	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.

Section 10. Stability and reactivity

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 LTI5500 P1	No specific data.
		SureSelect LTI5500 IA	No specific data.
		SureSelect LTI Pre Capture Primer	No specific data.
		SureSelect LTI5500 BC1-BC96 Plate	No specific data.
		SureSelect RNase Block	No specific data.
		SureSelect Hyb 3	No specific data.
		SureSelect Block 2	No specific data.
		SureSelect Indexing Block #1	No specific data.
		SureSelect LT Indexing Block #3	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.

10.5 Incompatible materials	:	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 LTI5500 P1	No specific data.
		SureSelect LTI5500 IA	No specific data.
		SureSelect LTI Pre Capture Primer	No specific data.
		SureSelect LTI5500 BC1-BC96 Plate	No specific data.
		SureSelect RNase Block	No specific data.
		SureSelect Hyb 3	No specific data.
		SureSelect Block 2	No specific data.
		SureSelect Indexing Block #1	No specific data.
		SureSelect LT Indexing Block #3	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.

Section 10. Stability and reactivity

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 LTI5500 P1	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	SureSelect LTI5500 IA	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	SureSelect LTI Pre Capture Primer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	SureSelect LTI5500 BC1-BC96 Plate	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 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.
	SureSelect LT Indexing Block #3	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.

Section 10. Stability and reactivity

SureSelect Hyb #2	produced. 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.

Section 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
10X End-Repair Buffer Magnesium chloride, hexahydrate	LD50 Oral	Rat	7333.3 mg/kg	-
5X T4 DNA Ligase Buffer Magnesium chloride, hexahydrate	LD50 Oral	Rat	7333.3 mg/kg	-
Klenow DNA Polymerase Glycerol	LD50 Oral	Rat	12600 mg/kg	-
T4 DNA Ligase Glycerol	LD50 Oral	Rat	12600 mg/kg	-
T4 DNA Polymerase Glycerol	LD50 Oral	Rat	12600 mg/kg	-
T4 Polynucleotide Kinase Glycerol	LD50 Oral	Rat	12600 mg/kg	-
10x Klenow Polymerase Buffer Magnesium chloride, hexahydrate	LD50 Oral	Rat	7333.3 mg/kg	-
Exo(-) Klenow Glycerol	LD50 Oral	Rat	12600 mg/kg	-
SureSelect RNase Block Glycerol	LD50 Oral	Rat	12600 mg/kg	-
SureSelect Hyb #1 Sodium chloride	LC50 Inhalation Dusts and mists LD50 Oral	Rat Rat	>42 g/m ³ 3000 mg/kg	1 hours -
Sodium dihydrogenorthophosphate	LD50 Oral	Rat	8290 mg/kg	-

Section 11. Toxicological information

SureSelect Hyb #2 Disodium dihydrogen ethylenediaminetetraacetate	LD50 Oral	Rat	2 g/kg	-
SureSelect Hyb #4 Sulfuric acid monododecyl ester sodium salt (1:1)	LD50 Oral	Rat	1288 mg/kg	-
SureSelect Binding Buffer Sodium chloride	LC50 Inhalation Dusts and mists LD50 Oral	Rat Rat	>42 g/m ³ 3000 mg/kg	1 hours -
SureSelect Wash Buffer 1 Sulfuric acid monododecyl ester sodium salt (1:1)	LD50 Oral	Rat	1288 mg/kg	-
SureSelect Wash Buffer 2 Sulfuric acid monododecyl ester sodium salt (1:1)	LD50 Oral	Rat	1288 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
5X T4 DNA Ligase Buffer Polyethylene glycol	Eyes - Mild irritant	Rabbit	-	-	-
	Skin - Mild irritant	Rabbit	-	-	-
Klenow DNA Polymerase Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
T4 DNA Ligase Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
T4 DNA Polymerase Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
T4 Polynucleotide Kinase Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
Exo(-) Klenow Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
SureSelect RNase Block					

Section 11. Toxicological information

Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
SureSelect Hyb #1					
Sodium chloride	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	10 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
Sodium dihydrogenorthophosphate	Eyes - Mild irritant	Rabbit	-	150 milligrams	-
SureSelect Binding Buffer					
Sodium chloride	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	10 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
10X End-Repair Buffer 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	Category 3	Not applicable.	Respiratory tract irritation
(R*,R*)-1,4-Dimercaptobutane-2,3-diol	Category 3	Not applicable.	Respiratory tract irritation
5X T4 DNA Ligase Buffer 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	Category 3	Not applicable.	Respiratory tract irritation
10x Klenow Polymerase Buffer 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	Category 3	Not applicable.	Respiratory tract irritation
SureSelect Hyb #4 Sulfuric acid monododecyl ester sodium salt (1:1)	Category 3	Not applicable.	Respiratory tract irritation
SureSelect Wash Buffer 1			

Section 11. Toxicological information

Sulfuric acid monododecyl ester sodium salt (1:1) SureSelect Wash Buffer 2 Sulfuric acid monododecyl ester sodium salt (1:1)	Category 3	Not applicable.	Respiratory tract irritation
	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Klenow DNA Polymerase Glycerol	Category 2	Inhalation	kidneys
T4 DNA Ligase Glycerol	Category 2	Inhalation	kidneys
T4 DNA Polymerase Glycerol	Category 2	Inhalation	kidneys
T4 Polynucleotide Kinase Glycerol	Category 2	Inhalation	kidneys
Exo(-) Klenow Glycerol	Category 2	Inhalation	kidneys
SureSelect RNase Block Glycerol	Category 2	Inhalation	kidneys

Aspiration hazard

Not available.

Information on the likely routes of exposure : Routes of entry anticipated: Oral, Dermal, Inhalation

Potential acute health effects

Eye contact	: 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 LTI5500 P1 SureSelect LTI5500 IA SureSelect LTI Pre Capture Primer SureSelect LTI5500 BC1-BC96 Plate SureSelect RNase Block SureSelect Hyb 3 SureSelect Block 2 SureSelect Indexing Block #1 SureSelect LT Indexing Block #3 SureSelect Hyb #1 SureSelect Hyb #2 SureSelect Hyb #4	Causes eye irritation. Causes eye irritation. Causes eye irritation. Causes eye irritation. Causes eye irritation. Causes eye irritation. No known significant effects or critical hazards. No known significant effects or critical hazards. Causes eye irritation. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. Causes eye irritation. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. Causes serious eye irritation. No known significant effects or critical hazards. No known significant effects or critical hazards.
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Section 11. Toxicological information

	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.
Inhalation	: 10X End-Repair Buffer	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
	5X T4 DNA Ligase Buffer	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
	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	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
	10x Klenow Polymerase Buffer	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
	Exo(-) Klenow	No known significant effects or critical hazards.
	dATP	No known significant effects or critical hazards.
	SureSelect LTI5500 P1	No known significant effects or critical hazards.
	SureSelect LTI5500 IA	No known significant effects or critical hazards.
	SureSelect LTI Pre Capture Primer	No known significant effects or critical hazards.
	SureSelect LTI5500 BC1-BC96 Plate	No known significant effects or critical hazards.
	SureSelect RNase Block	No known significant effects or critical hazards.
	SureSelect Hyb 3	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
	SureSelect Block 2	No known significant effects or critical hazards.
	SureSelect Indexing Block #1	No known significant effects or critical hazards.
	SureSelect LT Indexing Block #3	No known significant effects or critical hazards.
	SureSelect Hyb #1	No known significant effects or critical hazards.
	SureSelect Hyb #2	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following 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.
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 LTI5500 P1	No known significant effects or critical hazards.
	SureSelect LTI5500 IA	No known significant effects or critical hazards.
	SureSelect LTI Pre Capture Primer	No known significant effects or critical hazards.
	SureSelect LTI5500 BC1-BC96 Plate	No known significant effects or critical hazards.
	SureSelect RNase Block	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.

Section 11. Toxicological information

	SureSelect Indexing Block #1	No known significant effects or critical hazards.
	SureSelect LT Indexing Block #3	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	May cause an allergic skin reaction.
	SureSelect Binding Buffer	No known significant effects or critical hazards.
	SureSelect Wash Buffer 1	May cause an allergic skin reaction.
	SureSelect Wash Buffer 2	May cause an allergic skin reaction.
Ingestion	: 10X End-Repair Buffer	May be irritating to mouth, throat and stomach.
	5X T4 DNA Ligase Buffer	May be irritating to mouth, throat and stomach.
	Klenow DNA Polymerase	May be irritating to mouth, throat and stomach.
	T4 DNA Ligase	May be irritating to mouth, throat and stomach.
	T4 DNA Polymerase	May be irritating to mouth, throat and stomach.
	T4 Polynucleotide Kinase	May be irritating to mouth, throat and stomach.
	dNTP Mix	No known significant effects or critical hazards.
	10x Klenow Polymerase Buffer	No known significant effects or critical hazards.
	Exo(-) Klenow	May be irritating to mouth, throat and stomach.
	dATP	No known significant effects or critical hazards.
	SureSelect LTI5500 P1	No known significant effects or critical hazards.
	SureSelect LTI5500 IA	No known significant effects or critical hazards.
	SureSelect LTI Pre Capture Primer	No known significant effects or critical hazards.
	SureSelect LTI5500 BC1-BC96 Plate	No known significant effects or critical hazards.
	SureSelect RNase Block	May be irritating to mouth, throat and stomach.
	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 LT Indexing Block #3	No known significant effects or critical hazards.
	SureSelect Hyb #1	Irritating to mouth, throat and stomach.
	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.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: 10X End-Repair Buffer	Adverse symptoms may include the following: irritation watering redness
	5X T4 DNA Ligase Buffer	Adverse symptoms may include the following: irritation watering redness
	Klenow DNA Polymerase	Adverse symptoms may include the following: irritation watering redness
	T4 DNA Ligase	Adverse symptoms may include the following: irritation watering redness
	T4 DNA Polymerase	Adverse symptoms may include the following: irritation watering redness
	T4 Polynucleotide Kinase	Adverse symptoms may include the following: irritation

Section 11. Toxicological information

Inhalation

dNTP Mix	watering redness
10x Klenow Polymerase Buffer	No specific data.
Exo(-) Klenow	No specific data. Adverse symptoms may include the following: irritation watering redness
dATP	No specific data.
SureSelect LTI5500 P1	No specific data.
SureSelect LTI5500 IA	No specific data.
SureSelect LTI Pre Capture Primer	No specific data.
SureSelect LTI5500 BC1-BC96 Plate	No specific data.
SureSelect RNase Block	Adverse symptoms may include the following: irritation watering redness
SureSelect Hyb 3	No specific data.
SureSelect Block 2	No specific data.
SureSelect Indexing Block #1	No specific data.
SureSelect LT Indexing Block #3	No specific data.
SureSelect Hyb #1	Adverse symptoms may include the following: pain or irritation watering redness
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.
: 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 LTI5500 P1	No specific data.
SureSelect LTI5500 IA	No specific data.
SureSelect LTI Pre Capture Primer	No specific data.
SureSelect LTI5500 BC1-BC96 Plate	No specific data.
SureSelect RNase Block	No specific data.
SureSelect Hyb 3	No specific data.
SureSelect Block 2	No specific data.
SureSelect Indexing Block #1	No specific data.
SureSelect LT Indexing Block #3	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.

Section 11. Toxicological information

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	No specific data.
		dATP	No specific data.
		SureSelect LTI5500 P1	No specific data.
		SureSelect LTI5500 IA	No specific data.
		SureSelect LTI Pre Capture Primer	No specific data.
		SureSelect LTI5500 BC1-BC96 Plate	No specific data.
		SureSelect RNase Block	No specific data.
		SureSelect Hyb 3	No specific data.
		SureSelect Block 2	No specific data.
		SureSelect Indexing Block #1	No specific data.
		SureSelect LT Indexing Block #3	No specific data.
		SureSelect Hyb #1	No specific data.
		SureSelect Hyb #2	No specific data.
		SureSelect Hyb #4	Adverse symptoms may include the following: irritation redness
		SureSelect Binding Buffer	No specific data.
	SureSelect Wash Buffer 1	Adverse symptoms may include the following: irritation redness	
	SureSelect Wash Buffer 2	Adverse symptoms may include the following: irritation redness	
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 Buffer	No specific data.
		Exo(-) Klenow	No specific data.
		dATP	No specific data.
		SureSelect LTI5500 P1	No specific data.
		SureSelect LTI5500 IA	No specific data.
		SureSelect LTI Pre Capture Primer	No specific data.
		SureSelect LTI5500 BC1-BC96 Plate	No specific data.
		SureSelect RNase Block	No specific data.
		SureSelect Hyb 3	No specific data.
		SureSelect Block 2	No specific data.
		SureSelect Indexing Block #1	No specific data.
		SureSelect LT Indexing Block #3	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.	

Section 11. Toxicological information

Delayed and immediate effects and also 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

Not available.

General	:	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 LTI5500 P1 SureSelect LTI5500 IA SureSelect LTI Pre Capture Primer SureSelect LTI5500 BC1-BC96 Plate SureSelect RNase Block SureSelect Hyb 3 SureSelect Block 2 SureSelect Indexing Block #1 SureSelect LT Indexing Block #3 SureSelect Hyb #1 SureSelect Hyb #2 SureSelect Hyb #4 SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer 2	:	No known significant effects or critical hazards. No known significant effects or critical hazards. May cause damage to organs through prolonged or repeated exposure. May cause damage to organs through prolonged or repeated exposure. May cause damage to organs through prolonged or repeated exposure. May cause damage to organs through prolonged or repeated exposure. No known significant effects or critical hazards. No known significant effects or critical hazards. May cause damage to organs through prolonged or repeated exposure. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. May cause damage to organs through prolonged or repeated exposure. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. No known significant effects or critical hazards. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
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Section 11. Toxicological information

	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 LTI5500 P1	No known significant effects or critical hazards.
	SureSelect LTI5500 IA	No known significant effects or critical hazards.
	SureSelect LTI Pre Capture Primer	No known significant effects or critical hazards.
	SureSelect LTI5500 BC1-BC96 Plate	No known significant effects or critical hazards.
	SureSelect RNase Block	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 LT Indexing Block #3	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.
Developmental effects	: 10X End-Repair Buffer	No known significant effects or critical hazards.
	5X T4 DNA Ligase Buffer	No known significant effects or critical hazards.
	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 LTI5500 P1	No known significant effects or critical hazards.
	SureSelect LTI5500 IA	No known significant effects or critical hazards.
	SureSelect LTI Pre Capture Primer	No known significant effects or critical hazards.
	SureSelect LTI5500 BC1-BC96 Plate	No known significant effects or critical hazards.
	SureSelect RNase Block	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 LT Indexing Block #3	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.
Fertility effects	: 10X End-Repair Buffer	No known significant effects or critical hazards.
	5X T4 DNA Ligase Buffer	No known significant effects or critical hazards.
	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 LTI5500 P1	No known significant effects or critical hazards.
	SureSelect LTI5500 IA	No known significant effects or critical hazards.
	SureSelect LTI Pre Capture Primer	No known significant effects or critical hazards.
	SureSelect LTI5500 BC1-BC96	No known significant effects or critical hazards.

Section 11. Toxicological information

Plate	No known significant effects or critical hazards.
SureSelect RNase Block	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 LT Indexing Block #3	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.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
10X End-Repair Buffer Oral	25974 mg/kg
SureSelect Hyb #1 Oral	17142.9 mg/kg
SureSelect Hyb #2 Oral	13698.6 mg/kg
SureSelect Hyb #4 Oral	128800 mg/kg
SureSelect Binding Buffer Oral	51724.1 mg/kg

Other information

: 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 LTI5500 P1	Not available.
SureSelect LTI5500 IA	Not available.
SureSelect LTI Pre Capture Primer	Not available.
SureSelect LTI5500 BC1-BC96	Not available.
Plate	
SureSelect RNase Block	Not available.
SureSelect Hyb 3	Not available.
SureSelect Block 2	Not available.
SureSelect Indexing Block #1	Not available.
SureSelect LT Indexing Block #3	Not available.
SureSelect Hyb #1	Not available.
SureSelect Hyb #2	Not available.
SureSelect Hyb #4	Not available.
SureSelect Binding Buffer	Not available.

Section 11. Toxicological information

SureSelect Wash Buffer 1	Not available.
SureSelect Wash Buffer 2	Not available.

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 to 30000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
5X T4 DNA Ligase Buffer Polyethylene glycol	Acute LC50 >1000000 µg/l Fresh water	Fish - Salmo salar - Parr	96 hours
SureSelect Hyb #1 Sodium chloride	Acute EC50 2430000 µg/l Fresh water Acute EC50 28.85 mg/dm ³ Fresh water	Algae - Navicula seminulum Algae - Pseudokirchneriella subcapitata	96 hours 72 hours
Sodium dihydrogenorthophosphate	Acute EC50 519.6 mg/l Fresh water	Crustaceans - Cypris subglobosa	48 hours
	Acute IC50 6.87 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute LC50 1661 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1000000 µg/l Fresh water	Fish - Morone saxatilis - Larvae	96 hours
	Chronic NOEC 6 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Chronic NOEC 0.314 g/L Fresh water	Daphnia - Daphnia pulex	21 days
	Chronic NOEC 100 mg/l Fresh water	Fish - Gambusia holbrooki - Adult	8 weeks
	Acute LC50 720 ppm Fresh water	Fish - Gambusia affinis - Adult	96 hours
SureSelect Hyb #2 Disodium dihydrogen ethylenediaminetetraacetate	Acute LC50 320 mg/l Fresh water	Fish	96 hours
SureSelect Binding Buffer Sodium chloride	Acute EC50 2430000 µg/l Fresh water Acute EC50 28.85 mg/dm ³ Fresh water	Algae - Navicula seminulum Algae - Pseudokirchneriella subcapitata	96 hours 72 hours
	Acute EC50 519.6 mg/l Fresh water	Crustaceans - Cypris subglobosa	48 hours
	Acute IC50 6.87 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute LC50 1661 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1000000 µg/l Fresh water	Fish - Morone saxatilis - Larvae	96 hours
	Chronic NOEC 6 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Chronic NOEC 0.314 g/L Fresh water	Daphnia - Daphnia pulex	21 days
	Chronic NOEC 100 mg/l Fresh water	Fish - Gambusia holbrooki - Adult	8 weeks

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

Section 12. Ecological information

Product/ingredient name	LogP _{ow}	BCF	Potential
Klenow DNA Polymerase Glycerol	-1.76	-	low
T4 DNA Ligase Glycerol	-1.76	-	low
T4 DNA Polymerase Glycerol	-1.76	-	low
T4 Polynucleotide Kinase Glycerol	-1.76	-	low
Exo(-) Klenow Glycerol	-1.76	-	low
SureSelect RNase Block Glycerol	-1.76	-	low
SureSelect Hyb #2 Disodium dihydrogen ethylenediaminetetraacetate	-4.3	1.8	low

12.4 Mobility in soil

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

12.5 Other adverse effects

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 LTI5500 P1	No known significant effects or critical hazards.
SureSelect LTI5500 IA	No known significant effects or critical hazards.
SureSelect LTI Pre Capture Primer	No known significant effects or critical hazards.
SureSelect LTI5500 BC1-BC96 Plate	No known significant effects or critical hazards.
SureSelect RNase Block	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 LT Indexing Block #3	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.

Section 13. Disposal considerations

13.1 Waste treatment methods

Disposal methods : The generation of waste should be avoided or minimized 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

Section 14. Transport information

Regulatory information

DOT / IMDG / IATA : Not regulated.

Section 15. Regulatory information

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

U.S. Federal regulations : **United States inventory (TSCA 8b)**: At least one component is not listed.
Clean Water Act (CWA) 311: Edetic acid; Potassium hydroxide; Disodium hydrogenorthophosphate

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Section 15. Regulatory information

Classification : Immediate (acute) health hazard
Delayed (chronic) health hazard

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
10X End-Repair Buffer						
2-Amino-2-(hydroxymethyl)propane-1, 3-diol hydrochloride	5 - 10	No.	No.	No.	Yes.	No.
(R*,R*)-1,4-Dimercaptobutane-2,3-diol	1 - 5	No.	No.	No.	Yes.	No.
Magnesium chloride, hexahydrate	1 - 5	No.	No.	No.	Yes.	No.
5X T4 DNA Ligase Buffer						
Polyethylene glycol	10 - 30	Yes.	No.	No.	Yes.	No.
2-Amino-2-(hydroxymethyl)propane-1, 3-diol hydrochloride	1 - 5	No.	No.	No.	Yes.	No.
Magnesium chloride, hexahydrate	0.1 - 1	No.	No.	No.	Yes.	No.
Klenow DNA Polymerase						
Glycerol	30 - 60	No.	No.	No.	Yes.	Yes.
T4 DNA Ligase						
Glycerol	30 - 60	No.	No.	No.	Yes.	Yes.
T4 DNA Polymerase						
Glycerol	30 - 60	No.	No.	No.	Yes.	Yes.
T4 Polynucleotide Kinase						
Glycerol	30 - 60	No.	No.	No.	Yes.	Yes.
dNTP Mix						
2'-Deoxyguanosine 5'-(tetrahydrogen triphosphate)	1 - 5	No.	No.	No.	Yes.	No.
2'-Deoxyadenosine 5'-(tetrahydrogen triphosphate)	1 - 5	No.	No.	No.	Yes.	No.
10x Klenow Polymerase Buffer						
2-Amino-2-(hydroxymethyl)propane-1, 3-diol hydrochloride	5 - 10	No.	No.	No.	Yes.	No.
Magnesium chloride, hexahydrate	1 - 5	No.	No.	No.	Yes.	No.
Exo(-) Klenow						
Glycerol	30 - 60	No.	No.	No.	Yes.	Yes.
SureSelect RNase Block						
Glycerol	30 - 60	No.	No.	No.	Yes.	Yes.
SureSelect Hyb #1						
Sodium chloride	10 - 30	No.	No.	No.	Yes.	No.
Sodium dihydrogenorthophosphate	1 - 5	No.	No.	No.	Yes.	No.
SureSelect Hyb #2						
Disodium dihydrogen ethylenediaminetetraacetate	10 - 30	No.	No.	No.	Yes.	No.
SureSelect Hyb #4						

Section 15. Regulatory information

Sulfuric acid monododecyl ester sodium salt (1:1)	0.1 - 1	No.	No.	No.	Yes.	No.
SureSelect Binding Buffer Sodium chloride	5 - 10	No.	No.	No.	Yes.	No.
SureSelect Wash Buffer 1 Sulfuric acid monododecyl ester sodium salt (1:1)	< 0.1	No.	No.	No.	Yes.	No.
SureSelect Wash Buffer 2 Sulfuric acid monododecyl ester sodium salt (1:1)	< 0.1	No.	No.	No.	Yes.	No.

State regulations

- Massachusetts** : The following components are listed: GLYCERINE MIST
- New York** : None of the components are listed.
- New Jersey** : The following components are listed: GLYCERIN; 1,2,3-PROPANETRIOL
- Pennsylvania** : The following components are listed: 1,2,3-PROPANETRIOL
- California Prop. 65**

No products were found.

Canada inventory : Not determined.

International regulations

- International lists** :
- Australia inventory (AICS)**: Not determined.
 - China inventory (IECSC)**: Not determined.
 - Japan inventory**: Not determined.
 - Korea inventory**: Not determined.
 - Malaysia Inventory (EHS Register)**: Not determined.
 - New Zealand Inventory of Chemicals (NZIoC)**: Not determined.
 - Philippines inventory (PICCS)**: Not determined.
 - Taiwan inventory (CSNN)**: Not determined.

Chemical Weapons Convention List Schedule I Chemicals : Not listed

Chemical Weapons Convention List Schedule II Chemicals : Not listed

Chemical Weapons Convention List Schedule III Chemicals : Not listed

Section 16. Other information

History

- Date of issue** : 10/2/2014.
- Date of previous issue** : 8/23/2012.
- Version** : 2

Indicates information that has changed from previously issued version.

Notice to reader

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