

# SAFETY DATA SHEET



SureSelect RNA Library Prep, ILM (Pre PCR), Part Number 5500-0135

## Section 1. Identification

<b>Product identifier</b>	: SureSelect RNA Library Prep, ILM (Pre PCR), Part Number 5500-0135	
<b>Part no. (chemical kit)</b>	: 5500-0135	
<b>Part no.</b>	Fragmentation Mix	5190-6391
	SureSelect Ligation Master Mix	5190-3807
	Second Strand Enzyme Mix	5190-7764
	dA Tailing Master Mix	5190-6394
	PCR Master Mix	5190-6396
	First Strand Master Mix	5190-6392
	Uracil DNA Glycosylase (UDG)	5190-6397
	SureSelect Oligo Adaptor Mix	5190-6395
	SureSelect Primer	5190-3620
	SureSelect XT 8 bp Indexes	5190-7928
	ILM Reverse PCR Primer	5190-6398
	ILM Post-Capture PCR Primer	5190-6399
	Second Strand Oligo Mix	5190-7765

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

<b>Identified uses</b>	: <input checked="" type="checkbox"/> Analytical reagent.	
	<input checked="" type="checkbox"/> Fragmentation Mix	2.9 ml (96 reactions)
	SureSelect Ligation Master Mix	0.8 ml (96 reactions)
	Second Strand Enzyme Mix	2.4 ml (96 reactions)
	dA Tailing Master Mix	3.1 ml (96 reactions)
	PCR Master Mix	6.7 ml (96 reactions)
	First Strand Master Mix	1.1 ml (96 reactions)
	Uracil DNA Glycosylase (UDG)	0.135 ml (96 reactions)
	SureSelect Oligo Adaptor Mix	0.77 ml (96 reactions)
	SureSelect Primer	0.3 ml (16 reactions)
	SureSelect XT 8 bp Indexes	1.44 ml (0.015 ml x 96 reactions)
	ILM Reverse PCR Primer	0.135 ml (96 reactions)
	ILM Post-Capture PCR Primer	0.135 ml (96 reactions)
	Second Strand Oligo Mix	0.48 ml (96 reactions)

**Supplier/Manufacturer** : Agilent Technologies Australia Pty Ltd  
679 Springvale Road  
Mulgrave  
Victoria 3170, Australia  
1800 802 402

**Emergency telephone number (with hours of operation)** : CHEMTREC®: +(61)-290372994

## Section 2. Hazard(s) identification

### Classification of the substance or mixture

SureSelect Ligation Master

Mix  
H320 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2B

**Second Strand Enzyme Mix**

H320 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2B

**dA Tailing Master Mix**

H320 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2B

## Section 2. Hazard(s) identification

### First Strand Master Mix

H320

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2B

### Uracil DNA Glycosylase (UDG)

H320

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2B

### GHS label elements

#### Signal word

Fragmentation Mix	No signal word.
SureSelect Ligation Master Mix	WARNING
Second Strand Enzyme Mix	WARNING
dA Tailing Master Mix	WARNING
PCR Master Mix	No signal word.
First Strand Master Mix	WARNING
Uracil DNA Glycosylase (UDG)	WARNING
SureSelect Oligo Adaptor Mix	No signal word.
SureSelect Primer	No signal word.
SureSelect XT 8 bp Indexes	No signal word.
ILM Reverse PCR Primer	No signal word.
ILM Post-Capture PCR Primer	No signal word.
Second Strand Oligo Mix	No signal word.

#### Hazard statements

Fragmentation Mix	No known significant effects or critical hazards.
SureSelect Ligation Master Mix	H320 - Causes eye irritation.
Second Strand Enzyme Mix	H320 - Causes eye irritation.
dA Tailing Master Mix	H320 - Causes eye irritation.
PCR Master Mix	No known significant effects or critical hazards.
First Strand Master Mix	H320 - Causes eye irritation.
Uracil DNA Glycosylase (UDG)	H320 - Causes eye irritation.
SureSelect Oligo Adaptor Mix	No known significant effects or critical hazards.
SureSelect Primer	No known significant effects or critical hazards.
SureSelect XT 8 bp Indexes	No known significant effects or critical hazards.
ILM Reverse PCR Primer	No known significant effects or critical hazards.
ILM Post-Capture PCR Primer	No known significant effects or critical hazards.
Second Strand Oligo Mix	No known significant effects or critical hazards.

### Precautionary statements

#### Prevention

Fragmentation Mix	Not applicable.
SureSelect Ligation Master Mix	Not applicable.
Second Strand Enzyme Mix	Not applicable.
dA Tailing Master Mix	Not applicable.
PCR Master Mix	Not applicable.
First Strand Master Mix	Not applicable.
Uracil DNA Glycosylase (UDG)	Not applicable.
SureSelect Oligo Adaptor Mix	Not applicable.
SureSelect Primer	Not applicable.
SureSelect XT 8 bp Indexes	Not applicable.
ILM Reverse PCR Primer	Not applicable.
ILM Post-Capture PCR Primer	Not applicable.
Second Strand Oligo Mix	Not applicable.

## Section 2. Hazard(s) identification

<b>Response</b>	:	Fragmentation Mix	Not applicable.
		SureSelect Ligation Master Mix	P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
		Second Strand Enzyme Mix	P337 + P313 - If eye irritation persists: Get medical advice or attention.
		dA Tailing Master Mix	P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
		PCR Master Mix	P337 + P313 - If eye irritation persists: Get medical advice or attention.
		First Strand Master Mix	Not applicable.
		Uracil DNA Glycosylase (UDG)	P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
		SureSelect Oligo Adaptor Mix	P337 + P313 - If eye irritation persists: Get medical advice or attention.
		SureSelect Primer	Not applicable.
		SureSelect XT 8 bp Indexes	Not applicable.
		ILM Reverse PCR Primer	Not applicable.
		ILM Post-Capture PCR Primer	Not applicable.
		Second Strand Oligo Mix	Not applicable.
	<b>Storage</b>	:	Fragmentation Mix
		SureSelect Ligation Master Mix	Not applicable.
		Second Strand Enzyme Mix	Not applicable.
		dA Tailing Master Mix	Not applicable.
		PCR Master Mix	Not applicable.
		First Strand Master Mix	Not applicable.
		Uracil DNA Glycosylase (UDG)	Not applicable.
		SureSelect Oligo Adaptor Mix	Not applicable.
		SureSelect Primer	Not applicable.
		SureSelect XT 8 bp Indexes	Not applicable.
		ILM Reverse PCR Primer	Not applicable.
		ILM Post-Capture PCR Primer	Not applicable.
		Second Strand Oligo Mix	Not applicable.
<b>Disposal</b>		:	Fragmentation Mix
		SureSelect Ligation Master Mix	Not applicable.
		Second Strand Enzyme Mix	Not applicable.
		dA Tailing Master Mix	Not applicable.
		PCR Master Mix	Not applicable.
		First Strand Master Mix	Not applicable.
		Uracil DNA Glycosylase (UDG)	Not applicable.
		SureSelect Oligo Adaptor Mix	Not applicable.
		SureSelect Primer	Not applicable.
		SureSelect XT 8 bp Indexes	Not applicable.
	ILM Reverse PCR Primer	Not applicable.	

## Section 2. Hazard(s) identification

	ILM Post-Capture PCR Primer	Not applicable.
	Second Strand Oligo Mix	Not applicable.
<b>Supplemental label elements</b>		
<b>Additional warning phrases</b>	: Fragmentation Mix	Not applicable.
	SureSelect Ligation Master Mix	Not applicable.
	Second Strand Enzyme Mix	Not applicable.
	dA Tailing Master Mix	Not applicable.
	PCR Master Mix	Not applicable.
	First Strand Master Mix	Not applicable.
	Uracil DNA Glycosylase (UDG)	Not applicable.
	SureSelect Oligo Adaptor Mix	Not applicable.
	SureSelect Primer	Not applicable.
	SureSelect XT 8 bp Indexes	Not applicable.
	ILM Reverse PCR Primer	Not applicable.
	ILM Post-Capture PCR Primer	Not applicable.
	Second Strand Oligo Mix	Not applicable.
<b>Other hazards which do not result in classification</b>	: Fragmentation Mix	None known.
	SureSelect Ligation Master Mix	None known.
	Second Strand Enzyme Mix	None known.
	dA Tailing Master Mix	None known.
	PCR Master Mix	None known.
	First Strand Master Mix	None known.
	Uracil DNA Glycosylase (UDG)	None known.
	SureSelect Oligo Adaptor Mix	None known.
	SureSelect Primer	None known.
	SureSelect XT 8 bp Indexes	None known.
	ILM Reverse PCR Primer	None known.
	ILM Post-Capture PCR Primer	None known.
	Second Strand Oligo Mix	None known.

## Section 3. Composition and ingredient information

<b>Substance/mixture</b>	: Fragmentation Mix	Mixture
	SureSelect Ligation Master Mix	Mixture
	Second Strand Enzyme Mix	Mixture
	dA Tailing Master Mix	Mixture
	PCR Master Mix	Mixture
	First Strand Master Mix	Mixture
	Uracil DNA Glycosylase (UDG)	Mixture
	SureSelect Oligo Adaptor Mix	Mixture
	SureSelect Primer	Mixture
	SureSelect XT 8 bp Indexes	Mixture
	ILM Reverse PCR Primer	Mixture
	ILM Post-Capture PCR Primer	Mixture
	Second Strand Oligo Mix	Mixture

### CAS number/other identifiers

## Section 3. Composition and ingredient information

Ingredient name	% (w/w)	CAS number
<b>SureSelect Ligation Master Mix</b>		
Glycerol	≥30 - ≤60	56-81-5
Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	≥10 - ≤30	25322-68-3
<b>Second Strand Enzyme Mix</b>		
Glycerol	≥10 - ≤30	56-81-5
<b>dA Tailing Master Mix</b>		
Glycerol	≥10 - ≤30	56-81-5
Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	≥10 - ≤30	25322-68-3
<b>PCR Master Mix</b>		
Glycerol	<10	56-81-5
<b>First Strand Master Mix</b>		
Glycerol	≥10 - ≤30	56-81-5
<b>Uracil DNA Glycosylase (UDG)</b>		
Glycerol	≥60 - ≤75	56-81-5


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

The total concentration of ingredients in this product, reported or not in this section, is 100%.

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

## Section 4. First aid measures


### Description of necessary first aid measures

<b>Eye contact</b>	:  Fragmentation Mix	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	SureSelect Ligation Master Mix	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.
	Second Strand Enzyme Mix	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.
	dA Tailing Master Mix	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.
	PCR Master Mix	Immediately flush eyes with plenty of water,

## Section 4. First aid measures

	occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
First Strand Master Mix	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.
Uracil DNA Glycosylase (UDG)	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.
SureSelect Oligo Adaptor Mix	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
SureSelect Primer	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
SureSelect XT 8 bp Indexes	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
ILM Reverse PCR Primer	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
ILM Post-Capture PCR Primer	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Second Strand Oligo Mix	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

### Inhalation

	:  Fragmentation Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureSelect Ligation Master Mix	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.
	Second Strand Enzyme Mix	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

## Section 4. First aid measures

	position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
dA Tailing Master Mix	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.
PCR Master Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
First Strand Master Mix	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.
Uracil DNA Glycosylase (UDG)	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 Oligo Adaptor Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureSelect Primer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureSelect XT 8 bp Indexes	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
ILM Reverse PCR Primer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
ILM Post-Capture PCR Primer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Second Strand Oligo Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

## Section 4. First aid measures

<b>Skin contact</b>	:  Fragmentation Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect Ligation Master Mix	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.
	Second Strand Enzyme Mix	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.
	dA Tailing Master Mix	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.
	PCR Master Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	First Strand Master Mix	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.
	Uracil DNA Glycosylase (UDG)	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 Oligo Adaptor Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect Primer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect XT 8 bp Indexes	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	ILM Reverse PCR Primer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	ILM Post-Capture PCR Primer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Second Strand Oligo Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
<b>Ingestion</b>	:  Fragmentation Mix	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	SureSelect Ligation Master Mix	Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

## Section 4. First aid measures

Second Strand Enzyme Mix	Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
dA Tailing Master Mix	Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
PCR Master Mix	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
First Strand Master Mix	Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Uracil DNA Glycosylase (UDG)	Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
SureSelect Oligo Adaptor Mix	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give

## Section 4. First aid measures

SureSelect Primer	small 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. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
SureSelect XT 8 bp Indexes	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
ILM Reverse PCR Primer	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
ILM Post-Capture PCR Primer	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Second Strand Oligo Mix	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

##### Eye contact

: Fragmentation Mix	No known significant effects or critical hazards.
SureSelect Ligation Master Mix	Causes eye irritation.
Second Strand Enzyme Mix	Causes eye irritation.
dA Tailing Master Mix	Causes eye irritation.
PCR Master Mix	No known significant effects or critical hazards.
First Strand Master Mix	Causes eye irritation.
Uracil DNA Glycosylase (UDG)	Causes eye irritation.
SureSelect Oligo Adaptor Mix	No known significant effects or critical hazards.
SureSelect Primer	No known significant effects or critical hazards.
SureSelect XT 8 bp Indexes	No known significant effects or critical hazards.
ILM Reverse PCR Primer	No known significant effects or critical hazards.
ILM Post-Capture PCR Primer	No known significant effects or critical hazards.
Second Strand Oligo Mix	No known significant effects or critical hazards.

##### Inhalation

: Fragmentation Mix	No known significant effects or critical hazards.
SureSelect Ligation Master Mix	No known significant effects or critical hazards.
Second Strand Enzyme Mix	No known significant effects or critical hazards.
dA Tailing Master Mix	No known significant effects or critical hazards.
PCR Master Mix	No known significant effects or critical hazards.
First Strand Master Mix	No known significant effects or critical hazards.
Uracil DNA Glycosylase (UDG)	No known significant effects or critical hazards.
SureSelect Oligo Adaptor Mix	No known significant effects or critical hazards.
SureSelect Primer	No known significant effects or critical hazards.
SureSelect XT 8 bp Indexes	No known significant effects or critical hazards.
ILM Reverse PCR Primer	No known significant effects or critical hazards.
ILM Post-Capture PCR Primer	No known significant effects or critical hazards.

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<b>Skin contact</b>	:	Second Strand Oligo Mix	No known significant effects or critical hazards.
		Fragmentation Mix	No known significant effects or critical hazards.
		SureSelect Ligation Master Mix	No known significant effects or critical hazards.
		Second Strand Enzyme Mix	No known significant effects or critical hazards.
		dA Tailing Master Mix	No known significant effects or critical hazards.
		PCR Master Mix	No known significant effects or critical hazards.
		First Strand Master Mix	No known significant effects or critical hazards.
		Uracil DNA Glycosylase (UDG)	No known significant effects or critical hazards.
		SureSelect Oligo Adaptor Mix	No known significant effects or critical hazards.
		SureSelect Primer	No known significant effects or critical hazards.
		SureSelect XT 8 bp Indexes	No known significant effects or critical hazards.
		ILM Reverse PCR Primer	No known significant effects or critical hazards.
		ILM Post-Capture PCR Primer	No known significant effects or critical hazards.
<b>Ingestion</b>	:	Second Strand Oligo Mix	No known significant effects or critical hazards.
		Fragmentation Mix	No known significant effects or critical hazards.
		SureSelect Ligation Master Mix	No known significant effects or critical hazards.
		Second Strand Enzyme Mix	No known significant effects or critical hazards.
		dA Tailing Master Mix	No known significant effects or critical hazards.
		PCR Master Mix	No known significant effects or critical hazards.
		First Strand Master Mix	No known significant effects or critical hazards.
		Uracil DNA Glycosylase (UDG)	No known significant effects or critical hazards.
		SureSelect Oligo Adaptor Mix	No known significant effects or critical hazards.
		SureSelect Primer	No known significant effects or critical hazards.
		SureSelect XT 8 bp Indexes	No known significant effects or critical hazards.
		ILM Reverse PCR Primer	No known significant effects or critical hazards.
		ILM Post-Capture PCR Primer	No known significant effects or critical hazards.
	Second Strand Oligo Mix	No known significant effects or critical hazards.	
<b><u>Over-exposure signs/symptoms</u></b>			
<b>Eye contact</b>	:	Fragmentation Mix	No specific data.
		SureSelect Ligation Master Mix	Adverse symptoms may include the following: irritation watering redness
		Second Strand Enzyme Mix	Adverse symptoms may include the following: irritation watering redness
		dA Tailing Master Mix	Adverse symptoms may include the following: irritation watering redness
		PCR Master Mix	No specific data.
		First Strand Master Mix	Adverse symptoms may include the following: irritation watering redness
		Uracil DNA Glycosylase (UDG)	Adverse symptoms may include the following: irritation watering redness
		SureSelect Oligo Adaptor Mix	No specific data.
		SureSelect Primer	No specific data.
		SureSelect XT 8 bp Indexes	No specific data.
		ILM Reverse PCR Primer	No specific data.
		ILM Post-Capture PCR	No specific data.


## Section 4. First aid measures

	Primer	
	Second Strand Oligo Mix	No specific data.
<b>Inhalation</b>	: Fragmentation Mix	No specific data.
	SureSelect Ligation Master Mix	No specific data.
	Second Strand Enzyme Mix	No specific data.
	dA Tailing Master Mix	No specific data.
	PCR Master Mix	No specific data.
	First Strand Master Mix	No specific data.
	Uracil DNA Glycosylase (UDG)	No specific data.
	SureSelect Oligo Adaptor Mix	No specific data.
	SureSelect Primer	No specific data.
	SureSelect XT 8 bp Indexes	No specific data.
	ILM Reverse PCR Primer	No specific data.
	ILM Post-Capture PCR Primer	No specific data.
	Second Strand Oligo Mix	No specific data.
<b>Skin contact</b>	: Fragmentation Mix	No specific data.
	SureSelect Ligation Master Mix	No specific data.
	Second Strand Enzyme Mix	No specific data.
	dA Tailing Master Mix	No specific data.
	PCR Master Mix	No specific data.
	First Strand Master Mix	No specific data.
	Uracil DNA Glycosylase (UDG)	No specific data.
	SureSelect Oligo Adaptor Mix	No specific data.
	SureSelect Primer	No specific data.
	SureSelect XT 8 bp Indexes	No specific data.
	ILM Reverse PCR Primer	No specific data.
	ILM Post-Capture PCR Primer	No specific data.
	Second Strand Oligo Mix	No specific data.
<b>Ingestion</b>	: Fragmentation Mix	No specific data.
	SureSelect Ligation Master Mix	No specific data.
	Second Strand Enzyme Mix	No specific data.
	dA Tailing Master Mix	No specific data.
	PCR Master Mix	No specific data.
	First Strand Master Mix	No specific data.
	Uracil DNA Glycosylase (UDG)	No specific data.
	SureSelect Oligo Adaptor Mix	No specific data.
	SureSelect Primer	No specific data.
	SureSelect XT 8 bp Indexes	No specific data.
	ILM Reverse PCR Primer	No specific data.
	ILM Post-Capture PCR Primer	No specific data.
	Second Strand Oligo Mix	No specific data.

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

<b>Notes to physician</b>	: Fragmentation Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect Ligation Master 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.
	Second Strand Enzyme Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

## Section 4. First aid measures

	dA Tailing Master 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.
	PCR Master Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	First Strand Master Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Uracil DNA Glycosylase (UDG)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect Oligo Adaptor Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect Primer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect XT 8 bp Indexes	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	ILM Reverse PCR Primer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	ILM Post-Capture PCR Primer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Second Strand Oligo Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
<b>Specific treatments</b>	: Fragmentation Mix	No specific treatment.
	SureSelect Ligation Master Mix	No specific treatment.
	Second Strand Enzyme Mix	No specific treatment.
	dA Tailing Master Mix	No specific treatment.
	PCR Master Mix	No specific treatment.
	First Strand Master Mix	No specific treatment.
	Uracil DNA Glycosylase (UDG)	No specific treatment.
	SureSelect Oligo Adaptor Mix	No specific treatment.
	SureSelect Primer	No specific treatment.
	SureSelect XT 8 bp Indexes	No specific treatment.
	ILM Reverse PCR Primer	No specific treatment.
	ILM Post-Capture PCR Primer	No specific treatment.
	Second Strand Oligo Mix	No specific treatment.
<b>Protection of first-aiders</b>	:  Fragmentation Mix	No action shall be taken involving any personal risk or without suitable training.
	SureSelect Ligation Master Mix	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.
	Second Strand Enzyme Mix	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.
	dA Tailing Master Mix	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.
	PCR Master Mix	No action shall be taken involving any personal risk or without suitable training.

## Section 4. First aid measures

First Strand Master Mix	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.
Uracil DNA Glycosylase (UDG)	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 Oligo Adaptor Mix	No action shall be taken involving any personal risk or without suitable training.
SureSelect Primer	No action shall be taken involving any personal risk or without suitable training.
SureSelect XT 8 bp Indexes	No action shall be taken involving any personal risk or without suitable training.
ILM Reverse PCR Primer	No action shall be taken involving any personal risk or without suitable training.
ILM Post-Capture PCR Primer	No action shall be taken involving any personal risk or without suitable training.
Second Strand Oligo Mix	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

## Section 5. Firefighting measures

### Extinguishing media

#### **Suitable extinguishing media**

: Fragmentation Mix	Use an extinguishing agent suitable for the surrounding fire.
SureSelect Ligation Master Mix	Use an extinguishing agent suitable for the surrounding fire.
Second Strand Enzyme Mix	Use an extinguishing agent suitable for the surrounding fire.
dA Tailing Master Mix	Use an extinguishing agent suitable for the surrounding fire.
PCR Master Mix	Use an extinguishing agent suitable for the surrounding fire.
First Strand Master Mix	Use an extinguishing agent suitable for the surrounding fire.
Uracil DNA Glycosylase (UDG)	Use an extinguishing agent suitable for the surrounding fire.
SureSelect Oligo Adaptor Mix	Use an extinguishing agent suitable for the surrounding fire.
SureSelect Primer	Use an extinguishing agent suitable for the surrounding fire.
SureSelect XT 8 bp Indexes	Use an extinguishing agent suitable for the surrounding fire.
ILM Reverse PCR Primer	Use an extinguishing agent suitable for the surrounding fire.
ILM Post-Capture PCR Primer	Use an extinguishing agent suitable for the surrounding fire.
Second Strand Oligo Mix	Use an extinguishing agent suitable for the surrounding fire.

#### **Unsuitable extinguishing media**

: Fragmentation Mix	None known.
SureSelect Ligation Master Mix	None known.
Second Strand Enzyme Mix	None known.
dA Tailing Master Mix	None known.
PCR Master Mix	None known.
First Strand Master Mix	None known.
Uracil DNA Glycosylase (UDG)	None known.
SureSelect Oligo Adaptor Mix	None known.

## Section 5. Firefighting measures

	SureSelect Primer	None known.
	SureSelect XT 8 bp Indexes	None known.
	ILM Reverse PCR Primer	None known.
	ILM Post-Capture PCR Primer	None known.
	Second Strand Oligo Mix	None known.
<b>Specific hazards arising from the chemical</b>	: Fragmentation Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureSelect Ligation Master Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
	Second Strand Enzyme Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
	dA Tailing Master Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
	PCR Master Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
	First Strand Master Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
	Uracil DNA Glycosylase (UDG)	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureSelect Oligo Adaptor Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureSelect Primer	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureSelect XT 8 bp Indexes	In a fire or if heated, a pressure increase will occur and the container may burst.
	ILM Reverse PCR Primer	In a fire or if heated, a pressure increase will occur and the container may burst.
	ILM Post-Capture PCR Primer	In a fire or if heated, a pressure increase will occur and the container may burst.
	Second Strand Oligo Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
<b>Hazardous thermal decomposition products</b>	: Fragmentation Mix	No specific data.
	SureSelect Ligation Master Mix	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds
	Second Strand Enzyme Mix	Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides
	dA Tailing Master Mix	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds
	PCR Master Mix	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	First Strand Master Mix	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	Uracil DNA Glycosylase (UDG)	Decomposition products may include the following materials:

## Section 5. Firefighting measures


		carbon dioxide
		carbon monoxide
	SureSelect Oligo Adaptor Mix	No specific data.
	SureSelect Primer	No specific data.
	SureSelect XT 8 bp Indexes	No specific data.
	ILM Reverse PCR Primer	No specific data.
	ILM Post-Capture PCR Primer	No specific data.
	Second Strand Oligo Mix	No specific data.
<b>Special protective actions for fire-fighters</b>	: Fragmentation Mix	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	SureSelect Ligation Master 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.
	Second Strand Enzyme Mix	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	dA Tailing Master 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.
	PCR Master 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.
	First Strand Master 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.
	Uracil DNA Glycosylase (UDG)	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 Oligo Adaptor Mix	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	SureSelect Primer	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	SureSelect XT 8 bp Indexes	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	ILM Reverse PCR Primer	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	ILM Post-Capture PCR Primer	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	Second Strand Oligo Mix	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

## Section 5. Firefighting measures

<b>Special protective equipment for fire-fighters</b>	: Fragmentation Mix	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	SureSelect Ligation Master Mix	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Second Strand Enzyme Mix	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	dA Tailing Master Mix	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	PCR Master Mix	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	First Strand Master Mix	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Uracil DNA Glycosylase (UDG)	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	SureSelect Oligo Adaptor Mix	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	SureSelect Primer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	SureSelect XT 8 bp Indexes	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	ILM Reverse PCR Primer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	ILM Post-Capture PCR Primer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Second Strand Oligo Mix	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

### Personal precautions, protective equipment and emergency procedures

<b>For non-emergency personnel</b>	:  Fragmentation Mix	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	SureSelect Ligation Master	No action shall be taken involving any personal risk

## Section 6. Accidental release measures

Mix	or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
Second Strand Enzyme Mix	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
dA Tailing Master Mix	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
PCR Master Mix	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
First Strand Master Mix	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
Uracil DNA Glycosylase (UDG)	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
SureSelect Oligo Adaptor Mix	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
SureSelect Primer	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
SureSelect XT 8 bp Indexes	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.

## Section 6. Accidental release measures

ILM Reverse PCR Primer	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
ILM Post-Capture PCR Primer	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
Second Strand Oligo Mix	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
<b>For emergency responders</b> : Fragmentation Mix	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect Ligation Master Mix	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Second Strand Enzyme Mix	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
dA Tailing Master Mix	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
PCR Master Mix	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
First Strand Master Mix	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Uracil DNA Glycosylase (UDG)	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect Oligo Adaptor Mix	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect Primer	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect XT 8 bp Indexes	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
ILM Reverse PCR Primer	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
ILM Post-Capture PCR	If specialised clothing is required to deal with the

## Section 6. Accidental release measures

Primer	spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Second Strand Oligo Mix	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

<b>Environmental precautions</b> : Fragmentation Mix	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect Ligation Master Mix	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Second Strand Enzyme Mix	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
dA Tailing Master Mix	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
PCR Master Mix	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
First Strand Master Mix	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Uracil DNA Glycosylase (UDG)	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect Oligo Adaptor Mix	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect Primer	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect XT 8 bp Indexes	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
ILM Reverse PCR Primer	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

## Section 6. Accidental release measures

ILM Post-Capture PCR Primer	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Second Strand Oligo Mix	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and material for containment and cleaning up

<b>Methods for cleaning up</b>	: Fragmentation Mix	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
SureSelect Ligation Master 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.
Second Strand Enzyme Mix		Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
dA Tailing Master 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.
PCR Master 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.
First Strand Master 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.
Uracil DNA Glycosylase (UDG)		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 Oligo Adaptor Mix		Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
SureSelect Primer		Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an

## Section 6. Accidental release measures

	inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
SureSelect XT 8 bp Indexes	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
ILM Reverse PCR Primer	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
ILM Post-Capture PCR Primer	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Second Strand Oligo Mix	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

## Section 7. Handling and storage

### [Precautions for safe handling](#)

#### Protective measures

Fragmentation Mix	Put on appropriate personal protective equipment (see Section 8).
SureSelect Ligation Master Mix	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Second Strand Enzyme Mix	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
dA Tailing Master Mix	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
PCR Master Mix	Put on appropriate personal protective equipment (see Section 8).
First Strand Master Mix	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved

## Section 7. Handling and storage

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.

Uracil DNA Glycosylase (UDG)

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

SureSelect Oligo Adaptor Mix

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

SureSelect Primer

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

SureSelect XT 8 bp Indexes

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

ILM Reverse PCR Primer

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

ILM Post-Capture PCR Primer

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

Second Strand Oligo Mix

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

### Advice on general occupational hygiene

: Fragmentation Mix

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

SureSelect Ligation Master Mix

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

Second Strand Enzyme Mix

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

dA Tailing Master Mix

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

PCR Master Mix

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

First Strand Master Mix

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove

## Section 7. Handling and storage

Uracil DNA Glycosylase  
(UDG)

contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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

SureSelect Oligo Adaptor Mix

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

SureSelect Primer

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

SureSelect XT 8 bp Indexes

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.

ILM Reverse PCR Primer

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.

ILM Post-Capture PCR  
Primer

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.

Second Strand Oligo Mix

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

**Conditions for safe storage, including any incompatibilities** : Fragmentation Mix

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

## Section 7. Handling and storage

SureSelect Ligation Master Mix	<p>incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
Second Strand Enzyme Mix	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
dA Tailing Master Mix	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
PCR Master Mix	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
First Strand Master Mix	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
Uracil DNA Glycosylase (UDG)	<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</p>

## Section 7. Handling and storage

	prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
SureSelect Oligo Adaptor Mix	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
SureSelect Primer	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
SureSelect XT 8 bp Indexes	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
ILM Reverse PCR Primer	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
ILM Post-Capture PCR Primer	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
Second Strand Oligo Mix	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and

## Section 7. Handling and storage

drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls and personal protection

### [Control parameters](#)

### [Occupational exposure limits](#)

Ingredient name	Exposure limits
<b>SureSelect Ligation Master Mix</b> Glycerol	<b>Safe Work Australia (Australia, 10/2022).</b> TWA: 10 mg/m <sup>3</sup> 8 hours.
Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated	<b>DFG MAC-values list (Germany, 7/2022).</b> PEAK: 400 mg/m <sup>3</sup> , 4 times per shift, 15 minutes. Form: inhalable fraction TWA: 200 mg/m <sup>3</sup> 8 hours. Form: inhalable fraction
<b>Second Strand Enzyme Mix</b> Glycerol	<b>Safe Work Australia (Australia, 10/2022).</b> TWA: 10 mg/m <sup>3</sup> 8 hours.
<b>dA Tailing Master Mix</b> Glycerol	<b>Safe Work Australia (Australia, 10/2022).</b> TWA: 10 mg/m <sup>3</sup> 8 hours.
Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated	<b>DFG MAC-values list (Germany, 7/2022).</b> PEAK: 400 mg/m <sup>3</sup> , 4 times per shift, 15 minutes. Form: inhalable fraction TWA: 200 mg/m <sup>3</sup> 8 hours. Form: inhalable fraction
<b>PCR Master Mix</b> Glycerol	<b>Safe Work Australia (Australia, 10/2022).</b> TWA: 10 mg/m <sup>3</sup> 8 hours.
<b>First Strand Master Mix</b> Glycerol	<b>Safe Work Australia (Australia, 10/2022).</b> TWA: 10 mg/m <sup>3</sup> 8 hours.
<b>Uracil DNA Glycosylase (UDG)</b> Glycerol	<b>Safe Work Australia (Australia, 10/2022).</b> TWA: 10 mg/m <sup>3</sup> 8 hours.

### [Biological exposure indices](#)

No exposure indices known.

### [Appropriate engineering controls](#)

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

### [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](#)

## Section 8. Exposure controls and personal protection

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

## Section 9. Physical and chemical properties and safety characteristics

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

### Appearance

<b>Physical state</b>	:	Fragmentation Mix	Liquid.	
		SureSelect Ligation Master Mix	Liquid.	
		Second Strand Enzyme Mix	Liquid.	
		dA Tailing Master Mix	Liquid.	
		PCR Master Mix	Liquid.	
		First Strand Master Mix	Liquid.	
		Uracil DNA Glycosylase (UDG)	Liquid.	
		SureSelect Oligo Adaptor Mix	Liquid.	
		SureSelect Primer	Liquid.	
		SureSelect XT 8 bp Indexes	Liquid.	
		ILM Reverse PCR Primer	Liquid.	
		ILM Post-Capture PCR Primer	Liquid.	
		Second Strand Oligo Mix	Liquid.	
	<b>Colour</b>	:	Fragmentation Mix	Not available.
			SureSelect Ligation Master Mix	Not available.
		Second Strand Enzyme Mix	Not available.	
		dA Tailing Master Mix	Not available.	
		PCR Master Mix	Not available.	
		First Strand Master Mix	Not available.	
		Uracil DNA Glycosylase (UDG)	Not available.	

## Section 9. Physical and chemical properties and safety characteristics

		SureSelect Oligo Adaptor Mix	Not available.
		SureSelect Primer	Not available.
		SureSelect XT 8 bp Indexes	Not available.
		ILM Reverse PCR Primer	Not available.
		ILM Post-Capture PCR Primer	Not available.
		Second Strand Oligo Mix	Not available.
<b>Odour</b>	:	Fragmentation Mix	Not available.
		SureSelect Ligation Master Mix	Not available.
		Second Strand Enzyme Mix	Not available.
		dA Tailing Master Mix	Not available.
		PCR Master Mix	Not available.
		First Strand Master Mix	Not available.
		Uracil DNA Glycosylase (UDG)	Not available.
		SureSelect Oligo Adaptor Mix	Not available.
		SureSelect Primer	Not available.
		SureSelect XT 8 bp Indexes	Not available.
		ILM Reverse PCR Primer	Not available.
		ILM Post-Capture PCR Primer	Not available.
		Second Strand Oligo Mix	Not available.
<b>Odour threshold</b>	:	Fragmentation Mix	Not available.
		SureSelect Ligation Master Mix	Not available.
		Second Strand Enzyme Mix	Not available.
		dA Tailing Master Mix	Not available.
		PCR Master Mix	Not available.
		First Strand Master Mix	Not available.
		Uracil DNA Glycosylase (UDG)	Not available.
		SureSelect Oligo Adaptor Mix	Not available.
		SureSelect Primer	Not available.
		SureSelect XT 8 bp Indexes	Not available.
		ILM Reverse PCR Primer	Not available.
		ILM Post-Capture PCR Primer	Not available.
		Second Strand Oligo Mix	Not available.
<b>pH</b>	:	Fragmentation Mix	8.3
		SureSelect Ligation Master Mix	7.5
		Second Strand Enzyme Mix	8.3
		dA Tailing Master Mix	7.5
		PCR Master Mix	8.8
		First Strand Master Mix	8.3
		Uracil DNA Glycosylase (UDG)	Not available.
		SureSelect Oligo Adaptor Mix	Not available.
		SureSelect Primer	7.5
		SureSelect XT 8 bp Indexes	7
		ILM Reverse PCR Primer	7
		ILM Post-Capture PCR Primer	7
		Second Strand Oligo Mix	7.5

## Section 9. Physical and chemical properties and safety characteristics

**Melting point/freezing point** :

Fragmentation Mix	0°C (32°F)
SureSelect Ligation Master Mix	Not available.
Second Strand Enzyme Mix	Not available.
dA Tailing Master Mix	Not available.
PCR Master Mix	Not available.
First Strand Master Mix	Not available.
Uracil DNA Glycosylase (UDG)	Not available.
SureSelect Oligo Adaptor Mix	0°C (32°F)
SureSelect Primer	0°C (32°F)
SureSelect XT 8 bp Indexes	0°C (32°F)
ILM Reverse PCR Primer	0°C (32°F)
ILM Post-Capture PCR Primer	0°C (32°F)
Second Strand Oligo Mix	Not available.

**Boiling point, initial boiling point, and boiling range** :

Fragmentation Mix	100°C (212°F)
SureSelect Ligation Master Mix	Not available.
Second Strand Enzyme Mix	Not available.
dA Tailing Master Mix	Not available.
PCR Master Mix	Not available.
First Strand Master Mix	Not available.
Uracil DNA Glycosylase (UDG)	Not available.
SureSelect Oligo Adaptor Mix	100°C (212°F)
SureSelect Primer	100°C (212°F)
SureSelect XT 8 bp Indexes	100°C (212°F)
ILM Reverse PCR Primer	100°C (212°F)
ILM Post-Capture PCR Primer	100°C (212°F)
Second Strand Oligo Mix	Not available.

**Flash point** :

Ingredient name	Closed cup			Open cup		
	°C	°F	Method	°C	°F	Method
<b>SureSelect Ligation Master Mix</b>						
Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy-Ethane-1,2-diol, ethoxylated	171 to 235	339.8 to 455	-	199 to 238	390.2 to 460.4	-
Glycerol	-	-	-	177	350.6	-
<b>Second Strand Enzyme Mix</b>						
Glycerol	-	-	-	177	350.6	-
<b>dA Tailing Master Mix</b>						
Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy-Ethane-1,2-diol, ethoxylated	171 to 235	339.8 to 455	-	199 to 238	390.2 to 460.4	-

## Section 9. Physical and chemical properties and safety characteristics

Glycerol	-	-	-	177	350.6	-
<b>PCR Master Mix</b>						
Glycerol	-	-	-	177	350.6	-
<b>First Strand Master Mix</b>						
Glycerol	-	-	-	177	350.6	-
<b>Uracil DNA Glycosylase (UDG)</b>						
Glycerol	-	-	-	177	350.6	-

<b>Evaporation rate</b>	:	Fragmentation Mix	Not available.
		SureSelect Ligation Master Mix	Not available.
		Second Strand Enzyme Mix	Not available.
		dA Tailing Master Mix	Not available.
		PCR Master Mix	Not available.
		First Strand Master Mix	Not available.
		Uracil DNA Glycosylase (UDG)	Not available.
		SureSelect Oligo Adaptor Mix	Not available.
		SureSelect Primer	Not available.
		SureSelect XT 8 bp Indexes	Not available.
		ILM Reverse PCR Primer	Not available.
		ILM Post-Capture PCR Primer	Not available.
		Second Strand Oligo Mix	Not available.
<b>Flammability</b>	:	Fragmentation Mix	Not applicable.
		SureSelect Ligation Master Mix	Not applicable.
		Second Strand Enzyme Mix	Not applicable.
		dA Tailing Master Mix	Not applicable.
		PCR Master Mix	Not applicable.
		First Strand Master Mix	Not applicable.
		Uracil DNA Glycosylase (UDG)	Not applicable.
		SureSelect Oligo Adaptor Mix	Not applicable.
		SureSelect Primer	Not applicable.
		SureSelect XT 8 bp Indexes	Not applicable.
		ILM Reverse PCR Primer	Not applicable.
		ILM Post-Capture PCR Primer	Not applicable.
		Second Strand Oligo Mix	Not applicable.
<b>Lower and upper explosion limit/flammability limit</b>	:	Fragmentation Mix	Not available.
		SureSelect Ligation Master Mix	Not available.
		Second Strand Enzyme Mix	Not available.
		dA Tailing Master Mix	Not available.
		PCR Master Mix	Not available.
		First Strand Master Mix	Not available.
		Uracil DNA Glycosylase (UDG)	Not available.
		SureSelect Oligo Adaptor Mix	Not available.

## Section 9. Physical and chemical properties and safety characteristics

SureSelect Primer Not available.  
 SureSelect XT 8 bp Indexes Not available.  
 ILM Reverse PCR Primer Not available.  
 ILM Post-Capture PCR Primer Not available.  
 Second Strand Oligo Mix Not available.

### Vapour pressure

Ingredient name	Vapour Pressure at 20 °C			Vapour pressure at 50 °C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
<b>Fragmentation Mix</b>						
water	17.5	2.3	-	92.258	12.3	-
<b>SureSelect Ligation Master Mix</b>						
water	17.5	2.3	-	92.258	12.3	-
Glycerol	0.000075	0.00001	-	0.0025	0.00033	-
<b>Second Strand Enzyme Mix</b>						
water	17.5	2.3	-	92.258	12.3	-
Glycerol	0.000075	0.00001	-	0.0025	0.00033	-
<b>dA Tailing Master Mix</b>						
water	17.5	2.3	-	92.258	12.3	-
Glycerol	0.000075	0.00001	-	0.0025	0.00033	-
<b>PCR Master Mix</b>						
water	17.5	2.3	-	92.258	12.3	-
Glycerol	0.000075	0.00001	-	0.0025	0.00033	-
<b>First Strand Master Mix</b>						
water	17.5	2.3	-	92.258	12.3	-
Glycerol	0.000075	0.00001	-	0.0025	0.00033	-
<b>Uracil DNA Glycosylase (UDG)</b>						
water	17.5	2.3	-	92.258	12.3	-
Glycerol	0.000075	0.00001	-	0.0025	0.00033	-

## Section 9. Physical and chemical properties and safety characteristics

<b>SureSelect Oligo Adaptor Mix</b>							
water	17.5	2.3	-	92.258	12.3	-	
<b>SureSelect Primer</b>							
water	17.5	2.3	-	92.258	12.3	-	
<b>SureSelect XT 8 bp Indexes</b>							
water	17.5	2.3	-	92.258	12.3	-	
<b>ILM Reverse PCR Primer</b>							
water	17.5	2.3	-	92.258	12.3	-	
<b>ILM Post-Capture PCR Primer</b>							
water	17.5	2.3	-	92.258	12.3	-	
<b>Second Strand Oligo Mix</b>							
water	17.5	2.3	-	92.258	12.3	-	

<b>Relative vapour density</b>	:	Fragmentation Mix	Not available.
		SureSelect Ligation Master Mix	Not available.
		Second Strand Enzyme Mix	Not available.
		dA Tailing Master Mix	Not available.
		PCR Master Mix	Not available.
		First Strand Master Mix	Not available.
		Uracil DNA Glycosylase (UDG)	Not available.
		SureSelect Oligo Adaptor Mix	Not available.
		SureSelect Primer	Not available.
		SureSelect XT 8 bp Indexes	Not available.
		ILM Reverse PCR Primer	Not available.
		ILM Post-Capture PCR Primer	Not available.
		Second Strand Oligo Mix	Not available.
	<b>Relative density</b>	:	Fragmentation Mix
		SureSelect Ligation Master Mix	Not available.
		Second Strand Enzyme Mix	Not available.
		dA Tailing Master Mix	Not available.
		PCR Master Mix	Not available.
		First Strand Master Mix	Not available.
		Uracil DNA Glycosylase (UDG)	Not available.
		SureSelect Oligo Adaptor Mix	Not available.
		SureSelect Primer	Not available.
		SureSelect XT 8 bp Indexes	Not available.

## Section 9. Physical and chemical properties and safety characteristics

ILM Reverse PCR Primer Not available.  
 ILM Post-Capture PCR Not available.  
 Primer  
 Second Strand Oligo Mix Not available.

**Solubility(ies)**

<b>Media</b>	<b>Result</b>
<b>Fragmentation Mix</b>	
water	Soluble
<b>SureSelect Ligation Master Mix</b>	
water	Soluble
<b>Second Strand Enzyme Mix</b>	
water	Soluble
<b>dA Tailing Master Mix</b>	
water	Soluble
<b>PCR Master Mix</b>	
water	Soluble
<b>First Strand Master Mix</b>	
water	Soluble
<b>Uracil DNA Glycosylase (UDG)</b>	
water	Soluble
<b>SureSelect Oligo Adaptor Mix</b>	
water	Soluble
<b>SureSelect Primer</b>	
water	Soluble
<b>SureSelect XT 8 bp Indexes</b>	
water	Soluble
<b>ILM Reverse PCR Primer</b>	
water	Soluble
<b>ILM Post-Capture PCR Primer</b>	
water	Soluble
<b>Second Strand Oligo Mix</b>	
water	Soluble

**Partition coefficient: n-octanol/water**

**Fragmentation Mix** Not applicable.  
**SureSelect Ligation Master Mix** Not applicable.  
**Second Strand Enzyme Mix** Not applicable.  
**dA Tailing Master Mix** Not applicable.  
**PCR Master Mix** Not applicable.  
**First Strand Master Mix** Not applicable.  
**Uracil DNA Glycosylase (UDG)** Not applicable.  
**SureSelect Oligo Adaptor Mix** Not applicable.  
**SureSelect Primer** Not applicable.  
**SureSelect XT 8 bp Indexes** Not applicable.  
**ILM Reverse PCR Primer** Not applicable.  
**ILM Post-Capture PCR Primer** Not applicable.  
**Second Strand Oligo Mix** Not applicable.

**Auto-ignition temperature**

<b>Ingredient name</b>	<b>°C</b>	<b>°F</b>	<b>Method</b>
<b>SureSelect Ligation Master Mix</b>			
Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated	360	680	-
Glycerol	370	698	-
<b>Second Strand Enzyme Mix</b>			

## Section 9. Physical and chemical properties and safety characteristics

Glycerol	370	698	-
<b>dA Tailing Master Mix</b>			
Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated	360	680	-
Glycerol	370	698	-
<b>PCR Master Mix</b>			
Glycerol	370	698	-
<b>First Strand Master Mix</b>			
Glycerol	370	698	-
<b>Uracil DNA Glycosylase (UDG)</b>			
Glycerol	370	698	-

**Decomposition temperature** :

Fragmentation Mix	Not available.
SureSelect Ligation Master Mix	Not available.
Second Strand Enzyme Mix	Not available.
dA Tailing Master Mix	Not available.
PCR Master Mix	Not available.
First Strand Master Mix	Not available.
Uracil DNA Glycosylase (UDG)	Not available.
SureSelect Oligo Adaptor Mix	Not available.
SureSelect Primer	Not available.
SureSelect XT 8 bp Indexes	Not available.
ILM Reverse PCR Primer	Not available.
ILM Post-Capture PCR Primer	Not available.
Second Strand Oligo Mix	Not available.

**Viscosity** :

Fragmentation Mix	Not available.
SureSelect Ligation Master Mix	Not available.
Second Strand Enzyme Mix	Not available.
dA Tailing Master Mix	Not available.
PCR Master Mix	Not available.
First Strand Master Mix	Not available.
Uracil DNA Glycosylase (UDG)	Not available.
SureSelect Oligo Adaptor Mix	Not available.
SureSelect Primer	Not available.
SureSelect XT 8 bp Indexes	Not available.
ILM Reverse PCR Primer	Not available.
ILM Post-Capture PCR Primer	Not available.
Second Strand Oligo Mix	Not available.

**Particle characteristics**

## Section 9. Physical and chemical properties and safety characteristics

<b>Median particle size</b>	:	Fragmentation Mix	Not applicable.
		SureSelect Ligation Master Mix	Not applicable.
		Second Strand Enzyme Mix	Not applicable.
		dA Tailing Master Mix	Not applicable.
		PCR Master Mix	Not applicable.
		First Strand Master Mix	Not applicable.
		Uracil DNA Glycosylase (UDG)	Not applicable.
		SureSelect Oligo Adaptor Mix	Not applicable.
		SureSelect Primer	Not applicable.
		SureSelect XT 8 bp Indexes	Not applicable.
		ILM Reverse PCR Primer	Not applicable.
		ILM Post-Capture PCR Primer	Not applicable.
		Second Strand Oligo Mix	Not applicable.

## Section 10. Stability and reactivity

<b>Reactivity</b>	:	Fragmentation Mix	No specific test data related to reactivity available for this product or its ingredients.
		SureSelect Ligation Master Mix	No specific test data related to reactivity available for this product or its ingredients.
		Second Strand Enzyme Mix	No specific test data related to reactivity available for this product or its ingredients.
		dA Tailing Master Mix	No specific test data related to reactivity available for this product or its ingredients.
		PCR Master Mix	No specific test data related to reactivity available for this product or its ingredients.
		First Strand Master Mix	No specific test data related to reactivity available for this product or its ingredients.
		Uracil DNA Glycosylase (UDG)	No specific test data related to reactivity available for this product or its ingredients.
		SureSelect Oligo Adaptor Mix	No specific test data related to reactivity available for this product or its ingredients.
		SureSelect Primer	No specific test data related to reactivity available for this product or its ingredients.
		SureSelect XT 8 bp Indexes	No specific test data related to reactivity available for this product or its ingredients.
		ILM Reverse PCR Primer	No specific test data related to reactivity available for this product or its ingredients.
		ILM Post-Capture PCR Primer	No specific test data related to reactivity available for this product or its ingredients.
		Second Strand Oligo Mix	No specific test data related to reactivity available for this product or its ingredients.

<b>Chemical stability</b>	:	Fragmentation Mix	The product is stable.
		SureSelect Ligation Master Mix	The product is stable.
		Second Strand Enzyme Mix	The product is stable.
		dA Tailing Master Mix	The product is stable.
		PCR Master Mix	The product is stable.
		First Strand Master Mix	The product is stable.
		Uracil DNA Glycosylase (UDG)	The product is stable.
		SureSelect Oligo Adaptor Mix	The product is stable.
		SureSelect Primer	The product is stable.
		SureSelect XT 8 bp Indexes	The product is stable.
		ILM Reverse PCR Primer	The product is stable.
		ILM Post-Capture PCR Primer	The product is stable.

## Section 10. Stability and reactivity

Second Strand Oligo Mix      The product is stable.

### Possibility of hazardous reactions

: Fragmentation Mix	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect Ligation Master Mix	Under normal conditions of storage and use, hazardous reactions will not occur.
Second Strand Enzyme Mix	Under normal conditions of storage and use, hazardous reactions will not occur.
dA Tailing Master Mix	Under normal conditions of storage and use, hazardous reactions will not occur.
PCR Master Mix	Under normal conditions of storage and use, hazardous reactions will not occur.
First Strand Master Mix	Under normal conditions of storage and use, hazardous reactions will not occur.
Uracil DNA Glycosylase (UDG)	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect Oligo Adaptor Mix	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect Primer	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect XT 8 bp Indexes	Under normal conditions of storage and use, hazardous reactions will not occur.
ILM Reverse PCR Primer	Under normal conditions of storage and use, hazardous reactions will not occur.
ILM Post-Capture PCR Primer	Under normal conditions of storage and use, hazardous reactions will not occur.
Second Strand Oligo Mix	Under normal conditions of storage and use, hazardous reactions will not occur.

### Conditions to avoid

: Fragmentation Mix	No specific data.
SureSelect Ligation Master Mix	No specific data.
Second Strand Enzyme Mix	No specific data.
dA Tailing Master Mix	No specific data.
PCR Master Mix	No specific data.
First Strand Master Mix	No specific data.
Uracil DNA Glycosylase (UDG)	No specific data.
SureSelect Oligo Adaptor Mix	No specific data.
SureSelect Primer	No specific data.
SureSelect XT 8 bp Indexes	No specific data.
ILM Reverse PCR Primer	No specific data.
ILM Post-Capture PCR Primer	No specific data.
Second Strand Oligo Mix	No specific data.

### Incompatible materials

: Fragmentation Mix	May react or be incompatible with oxidising materials.
SureSelect Ligation Master Mix	May react or be incompatible with oxidising materials.
Second Strand Enzyme Mix	May react or be incompatible with oxidising materials.
dA Tailing Master Mix	May react or be incompatible with oxidising materials.
PCR Master Mix	May react or be incompatible with oxidising materials.
First Strand Master Mix	May react or be incompatible with oxidising materials.
Uracil DNA Glycosylase (UDG)	May react or be incompatible with oxidising materials.
SureSelect Oligo Adaptor Mix	May react or be incompatible with oxidising materials.
SureSelect Primer	May react or be incompatible with oxidising materials.
SureSelect XT 8 bp Indexes	May react or be incompatible with oxidising materials.
ILM Reverse PCR Primer	May react or be incompatible with oxidising materials.
ILM Post-Capture PCR Primer	May react or be incompatible with oxidising materials.
Second Strand Oligo Mix	May react or be incompatible with oxidising materials.

## Section 10. Stability and reactivity

<b>Hazardous decomposition products</b>	: Fragmentation Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	SureSelect Ligation Master Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Second Strand Enzyme Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	dA Tailing Master Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	PCR Master Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	First Strand Master Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Uracil DNA Glycosylase (UDG)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	SureSelect Oligo Adaptor Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	SureSelect Primer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	SureSelect XT 8 bp Indexes	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	ILM Reverse PCR Primer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	ILM Post-Capture PCR Primer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Second Strand Oligo Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
<b>SureSelect Ligation Master Mix</b> Glycerol	LD50 Oral	Rat	12600 mg/kg	-
<b>Second Strand Enzyme Mix</b> Glycerol	LD50 Oral	Rat	12600 mg/kg	-
<b>dA Tailing Master Mix</b> Glycerol	LD50 Oral	Rat	12600 mg/kg	-
<b>PCR Master Mix</b> Glycerol	LD50 Oral	Rat	12600 mg/kg	-
<b>First Strand Master Mix</b> Glycerol	LD50 Oral	Rat	12600 mg/kg	-

**Section 11. Toxicological information**

<b>Uracil DNA Glycosylase (UDG)</b> Glycerol	LD50 Oral	Rat	12600 mg/kg	-
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**Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation	
<b>SureSelect Ligation Master Mix</b> Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-	
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-	
	Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
		Eyes - Mild irritant	Rabbit	-	500 mg	-
		Skin - Mild irritant	Rabbit	-	500 mg	-
<b>Second Strand Enzyme Mix</b> Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-	
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-	
<b>dA Tailing Master Mix</b> Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-	
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-	
	Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
		Eyes - Mild irritant	Rabbit	-	500 mg	-
		Skin - Mild irritant	Rabbit	-	500 mg	-
<b>PCR Master Mix</b> Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-	
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-	
<b>First Strand Master Mix</b> Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-	
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-	
<b>Uracil DNA Glycosylase (UDG)</b> Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-	
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-	

**Sensitisation**

Not available.

## Section 11. Toxicological information

### Mutagenicity

**Conclusion/Summary** : Not available.

### Carcinogenicity

**Conclusion/Summary** : Not available.

### Reproductive toxicity

**Conclusion/Summary** : Not available.

### Teratogenicity

**Conclusion/Summary** : Not available.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

<b>Information on likely routes of exposure</b>	<b>Fragmentation Mix</b>	Not available.
	<b>SureSelect Ligation Master Mix</b>	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
	<b>Second Strand Enzyme Mix</b>	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
	<b>dA Tailing Master Mix</b>	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
	<b>PCR Master Mix</b>	Not available.
	<b>First Strand Master Mix</b>	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
	<b>Uracil DNA Glycosylase (UDG)</b>	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
	<b>SureSelect Oligo Adaptor Mix</b>	Not available.
	<b>SureSelect Primer</b>	Not available.
	<b>SureSelect XT 8 bp Indexes</b>	Not available.
	<b>ILM Reverse PCR Primer</b>	Not available.
	<b>ILM Post-Capture PCR Primer</b>	Not available.
	<b>Second Strand Oligo Mix</b>	Not available.

### Potential acute health effects

<b>Eye contact</b>	<b>Fragmentation Mix</b>	No known significant effects or critical hazards.
	<b>SureSelect Ligation Master Mix</b>	Causes eye irritation.
	<b>Second Strand Enzyme Mix</b>	Causes eye irritation.
	<b>dA Tailing Master Mix</b>	Causes eye irritation.
	<b>PCR Master Mix</b>	No known significant effects or critical hazards.
	<b>First Strand Master Mix</b>	Causes eye irritation.
	<b>Uracil DNA Glycosylase (UDG)</b>	Causes eye irritation.
	<b>SureSelect Oligo Adaptor Mix</b>	No known significant effects or critical hazards.
	<b>SureSelect Primer</b>	No known significant effects or critical hazards.
	<b>SureSelect XT 8 bp Indexes</b>	No known significant effects or critical hazards.
	<b>ILM Reverse PCR Primer</b>	No known significant effects or critical hazards.
	<b>ILM Post-Capture PCR Primer</b>	No known significant effects or critical hazards.
	<b>Second Strand Oligo Mix</b>	No known significant effects or critical hazards.

## Section 11. Toxicological information

<b>Inhalation</b>	:	Fragmentation Mix	No known significant effects or critical hazards.
		SureSelect Ligation Master Mix	No known significant effects or critical hazards.
		Second Strand Enzyme Mix	No known significant effects or critical hazards.
		dA Tailing Master Mix	No known significant effects or critical hazards.
		PCR Master Mix	No known significant effects or critical hazards.
		First Strand Master Mix	No known significant effects or critical hazards.
		Uracil DNA Glycosylase (UDG)	No known significant effects or critical hazards.
		SureSelect Oligo Adaptor Mix	No known significant effects or critical hazards.
		SureSelect Primer	No known significant effects or critical hazards.
		SureSelect XT 8 bp Indexes	No known significant effects or critical hazards.
		ILM Reverse PCR Primer	No known significant effects or critical hazards.
		ILM Post-Capture PCR Primer	No known significant effects or critical hazards.
		Second Strand Oligo Mix	No known significant effects or critical hazards.
	<b>Skin contact</b>	:	Fragmentation Mix
		SureSelect Ligation Master Mix	No known significant effects or critical hazards.
		Second Strand Enzyme Mix	No known significant effects or critical hazards.
		dA Tailing Master Mix	No known significant effects or critical hazards.
		PCR Master Mix	No known significant effects or critical hazards.
		First Strand Master Mix	No known significant effects or critical hazards.
		Uracil DNA Glycosylase (UDG)	No known significant effects or critical hazards.
		SureSelect Oligo Adaptor Mix	No known significant effects or critical hazards.
		SureSelect Primer	No known significant effects or critical hazards.
		SureSelect XT 8 bp Indexes	No known significant effects or critical hazards.
		ILM Reverse PCR Primer	No known significant effects or critical hazards.
		ILM Post-Capture PCR Primer	No known significant effects or critical hazards.
		Second Strand Oligo Mix	No known significant effects or critical hazards.
<b>Ingestion</b>		:	Fragmentation Mix
		SureSelect Ligation Master Mix	No known significant effects or critical hazards.
		Second Strand Enzyme Mix	No known significant effects or critical hazards.
		dA Tailing Master Mix	No known significant effects or critical hazards.
		PCR Master Mix	No known significant effects or critical hazards.
		First Strand Master Mix	No known significant effects or critical hazards.
		Uracil DNA Glycosylase (UDG)	No known significant effects or critical hazards.
		SureSelect Oligo Adaptor Mix	No known significant effects or critical hazards.
		SureSelect Primer	No known significant effects or critical hazards.
		SureSelect XT 8 bp Indexes	No known significant effects or critical hazards.
		ILM Reverse PCR Primer	No known significant effects or critical hazards.
		ILM Post-Capture PCR Primer	No known significant effects or critical hazards.
		Second Strand Oligo Mix	No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

<b>Eye contact</b>	:	Fragmentation Mix	No specific data.
		SureSelect Ligation Master Mix	Adverse symptoms may include the following: irritation watering redness
		Second Strand Enzyme Mix	Adverse symptoms may include the following: irritation watering redness
	dA Tailing Master Mix	Adverse symptoms may include the following: irritation	

## Section 11. Toxicological information

		watering
		redness
	PCR Master Mix	No specific data.
	First Strand Master Mix	Adverse symptoms may include the following: irritation watering redness
	Uracil DNA Glycosylase (UDG)	Adverse symptoms may include the following: irritation watering redness
	SureSelect Oligo Adaptor Mix	No specific data.
	SureSelect Primer	No specific data.
	SureSelect XT 8 bp Indexes	No specific data.
	ILM Reverse PCR Primer	No specific data.
	ILM Post-Capture PCR Primer	No specific data.
	Second Strand Oligo Mix	No specific data.
<b>Inhalation</b>	: Fragmentation Mix	No specific data.
	SureSelect Ligation Master Mix	No specific data.
	Second Strand Enzyme Mix	No specific data.
	dA Tailing Master Mix	No specific data.
	PCR Master Mix	No specific data.
	First Strand Master Mix	No specific data.
	Uracil DNA Glycosylase (UDG)	No specific data.
	SureSelect Oligo Adaptor Mix	No specific data.
	SureSelect Primer	No specific data.
	SureSelect XT 8 bp Indexes	No specific data.
	ILM Reverse PCR Primer	No specific data.
	ILM Post-Capture PCR Primer	No specific data.
	Second Strand Oligo Mix	No specific data.
<b>Skin contact</b>	: Fragmentation Mix	No specific data.
	SureSelect Ligation Master Mix	No specific data.
	Second Strand Enzyme Mix	No specific data.
	dA Tailing Master Mix	No specific data.
	PCR Master Mix	No specific data.
	First Strand Master Mix	No specific data.
	Uracil DNA Glycosylase (UDG)	No specific data.
	SureSelect Oligo Adaptor Mix	No specific data.
	SureSelect Primer	No specific data.
	SureSelect XT 8 bp Indexes	No specific data.
	ILM Reverse PCR Primer	No specific data.
	ILM Post-Capture PCR Primer	No specific data.
	Second Strand Oligo Mix	No specific data.
<b>Ingestion</b>	: Fragmentation Mix	No specific data.
	SureSelect Ligation Master Mix	No specific data.
	Second Strand Enzyme Mix	No specific data.
	dA Tailing Master Mix	No specific data.
	PCR Master Mix	No specific data.
	First Strand Master Mix	No specific data.
	Uracil DNA Glycosylase (UDG)	No specific data.
	SureSelect Oligo Adaptor Mix	No specific data.
	SureSelect Primer	No specific data.
	SureSelect XT 8 bp Indexes	No specific data.

## Section 11. Toxicological information

ILM Reverse PCR Primer	No specific data.
ILM Post-Capture PCR Primer	No specific data.
Second Strand Oligo Mix	No specific data.

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

#### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Potential chronic health effects

<b>General</b>	: Fragmentation Mix	No known significant effects or critical hazards.
	SureSelect Ligation Master Mix	No known significant effects or critical hazards.
	Second Strand Enzyme Mix	No known significant effects or critical hazards.
	dA Tailing Master Mix	No known significant effects or critical hazards.
	PCR Master Mix	No known significant effects or critical hazards.
	First Strand Master Mix	No known significant effects or critical hazards.
	Uracil DNA Glycosylase (UDG)	No known significant effects or critical hazards.
	SureSelect Oligo Adaptor Mix	No known significant effects or critical hazards.
	SureSelect Primer	No known significant effects or critical hazards.
	SureSelect XT 8 bp Indexes	No known significant effects or critical hazards.
	ILM Reverse PCR Primer	No known significant effects or critical hazards.
	ILM Post-Capture PCR Primer	No known significant effects or critical hazards.
	Second Strand Oligo Mix	No known significant effects or critical hazards.
<b>Carcinogenicity</b>	: Fragmentation Mix	No known significant effects or critical hazards.
	SureSelect Ligation Master Mix	No known significant effects or critical hazards.
	Second Strand Enzyme Mix	No known significant effects or critical hazards.
	dA Tailing Master Mix	No known significant effects or critical hazards.
	PCR Master Mix	No known significant effects or critical hazards.
	First Strand Master Mix	No known significant effects or critical hazards.
	Uracil DNA Glycosylase (UDG)	No known significant effects or critical hazards.
	SureSelect Oligo Adaptor Mix	No known significant effects or critical hazards.
	SureSelect Primer	No known significant effects or critical hazards.
	SureSelect XT 8 bp Indexes	No known significant effects or critical hazards.
	ILM Reverse PCR Primer	No known significant effects or critical hazards.
	ILM Post-Capture PCR Primer	No known significant effects or critical hazards.
	Second Strand Oligo Mix	No known significant effects or critical hazards.
<b>Mutagenicity</b>	: Fragmentation Mix	No known significant effects or critical hazards.
	SureSelect Ligation Master Mix	No known significant effects or critical hazards.
	Second Strand Enzyme Mix	No known significant effects or critical hazards.
	dA Tailing Master Mix	No known significant effects or critical hazards.
	PCR Master Mix	No known significant effects or critical hazards.
	First Strand Master Mix	No known significant effects or critical hazards.
	Uracil DNA Glycosylase (UDG)	No known significant effects or critical hazards.
	SureSelect Oligo Adaptor Mix	No known significant effects or critical hazards.
	SureSelect Primer	No known significant effects or critical hazards.
	SureSelect XT 8 bp Indexes	No known significant effects or critical hazards.
	ILM Reverse PCR Primer	No known significant effects or critical hazards.

## Section 11. Toxicological information

<b>Reproductive toxicity</b>	:	ILM Post-Capture PCR Primer	No known significant effects or critical hazards.
		Second Strand Oligo Mix	No known significant effects or critical hazards.
		Fragmentation Mix	No known significant effects or critical hazards.
		SureSelect Ligation Master Mix	No known significant effects or critical hazards.
		Second Strand Enzyme Mix	No known significant effects or critical hazards.
		dA Tailing Master Mix	No known significant effects or critical hazards.
		PCR Master Mix	No known significant effects or critical hazards.
		First Strand Master Mix	No known significant effects or critical hazards.
		Uracil DNA Glycosylase (UDG)	No known significant effects or critical hazards.
		SureSelect Oligo Adaptor Mix	No known significant effects or critical hazards.
		SureSelect Primer	No known significant effects or critical hazards.
		SureSelect XT 8 bp Indexes	No known significant effects or critical hazards.
	ILM Reverse PCR Primer	No known significant effects or critical hazards.	
	ILM Post-Capture PCR Primer	No known significant effects or critical hazards.	
	Second Strand Oligo Mix	No known significant effects or critical hazards.	

### Numerical measures of toxicity

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
<b>SureSelect Ligation Master Mix</b>					
Glycerol	12600	N/A	N/A	N/A	N/A
Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy-Ethane-1,2-diol, ethoxylated	28000	N/A	N/A	N/A	N/A
<b>Second Strand Enzyme Mix</b>					
Glycerol	12600	N/A	N/A	N/A	N/A
<b>dA Tailing Master Mix</b>					
Glycerol	12600	N/A	N/A	N/A	N/A
Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy-Ethane-1,2-diol, ethoxylated	28000	N/A	N/A	N/A	N/A
<b>PCR Master Mix</b>					
Glycerol	12600	N/A	N/A	N/A	N/A
<b>First Strand Master Mix</b>					
Glycerol	12600	N/A	N/A	N/A	N/A
<b>Uracil DNA Glycosylase (UDG)</b>					
Glycerol	12600	N/A	N/A	N/A	N/A

## Section 12. Ecological information

### Toxicity

## Section 12. Ecological information

Product/ingredient name	Result	Species	Exposure
<b>SureSelect Ligation Master Mix</b> Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - <i>Oncorhynchus mykiss</i>	96 hours
Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated	Acute EC50 >100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 >1000000 $\mu$ g/l Fresh water	Fish - <i>Salmo salar</i> - Parr	96 hours
<b>Second Strand Enzyme Mix</b> Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - <i>Oncorhynchus mykiss</i>	96 hours
<b>dA Tailing Master Mix</b> Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - <i>Oncorhynchus mykiss</i>	96 hours
Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated	Acute EC50 >100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 >1000000 $\mu$ g/l Fresh water	Fish - <i>Salmo salar</i> - Parr	96 hours
<b>PCR Master Mix</b> Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - <i>Oncorhynchus mykiss</i>	96 hours
<b>First Strand Master Mix</b> Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - <i>Oncorhynchus mykiss</i>	96 hours
<b>Uracil DNA Glycosylase (UDG)</b> Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - <i>Oncorhynchus mykiss</i>	96 hours

### Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
<b>SureSelect Ligation Master Mix</b> Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated	OECD 301D Ready Biodegradability - Closed Bottle Test	74.85 % - Readily - 28 days	4 mg/l	-
<b>Second Strand Enzyme Mix</b> Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
<b>dA Tailing Master Mix</b> Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated	OECD 301D Ready Biodegradability - Closed Bottle Test	74.85 % - Readily - 28 days	4 mg/l	-

## Section 12. Ecological information

<b>PCR Master Mix</b> Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
<b>First Strand Master Mix</b> Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
<b>Uracil DNA Glycosylase (UDG)</b> Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
<b>SureSelect Ligation Master Mix</b> Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated	-	-	Readily
<b>dA Tailing Master Mix</b> Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated	-	-	Readily

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
<b>SureSelect Ligation Master Mix</b> Glycerol	-1.76	-	Low
Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated	-	3.2	Low
<b>Second Strand Enzyme Mix</b> Glycerol	-1.76	-	Low
<b>dA Tailing Master Mix</b> Glycerol	-1.76	-	Low
Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated	-	3.2	Low
<b>PCR Master Mix</b> Glycerol	-1.76	-	Low
<b>First Strand Master Mix</b> Glycerol	-1.76	-	Low
<b>Uracil DNA Glycosylase (UDG)</b> Glycerol	-1.76	-	Low

### Mobility in soil

## Section 12. Ecological information

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

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

## Section 13. Disposal considerations

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

## Section 14. Transport information

**ADG / IMDG / IATA** : Not regulated as Dangerous Goods according to the ADG Code .

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

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

## Section 15. Regulatory information

### Standard for the Uniform Scheduling of Medicines and Poisons

Not regulated.

### Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### Inventory list

**Australia** : Not determined.

**New Zealand** : Not determined.

**United States** : Not determined.

## Section 16. Any other relevant information

### History

**Date of issue/Date of revision** : 28/09/2023

**Date of previous issue** : 06/07/2020

**Version** : 4

### Key to abbreviations

: ADG = Australian Dangerous Goods  
 ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road  
 ATE = Acute Toxicity Estimate  
 BCF = Bioconcentration Factor  
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
 IATA = International Air Transport Association  
 IBC = Intermediate Bulk Container  
 IMDG = International Maritime Dangerous Goods  
 LogPow = logarithm of the octanol/water partition coefficient  
 MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
 N/A = Not available  
 SUSMP = Standard Uniform Schedule of Medicine and Poisons  
 UN = United Nations

### Procedure used to derive the classification

Classification	Justification
<b>SureSelect Ligation Master Mix</b> SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2B	Calculation method
<b>Second Strand Enzyme Mix</b> SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2B	Calculation method
<b>dA Tailing Master Mix</b> SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2B	Calculation method
<b>First Strand Master Mix</b> SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2B	Calculation method
<b>Uracil DNA Glycosylase (UDG)</b> SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2B	Calculation method

✔ Indicates information that has changed from previously issued version.

### Notice to reader

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