

# SAFETY DATA SHEET

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

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

### 1.1 Product identifier

<b>Product name</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

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

<b>Identified uses</b>	:	Analytical reagent.	
		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)
<b>Uses advised against</b>	:	None known.	

### 1.3 Details of the supplier of the safety data sheet

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

**e-mail address of person responsible for this SDS** : pdl-msds\_author@agilent.com

### 1.4 Emergency telephone number

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

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

<b>Product definition</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

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

Not classified.

Fragmentation Mix	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
SureSelect Ligation Master Mix	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
Second Strand Enzyme Mix	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
dA Tailing Master Mix	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
PCR Master Mix	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
First Strand Master Mix	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
Uracil DNA Glycosylase (UDG)	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
SureSelect Oligo Adaptor Mix	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
SureSelect Primer	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
SureSelect XT 8 bp Indexes	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
ILM Reverse PCR Primer	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
ILM Post-Capture PCR Primer	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
Second Strand Oligo Mix	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

<b>Ingredients of unknown toxicity</b>	:	SureSelect Ligation Master Mix	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%
		Second Strand Enzyme Mix	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10%
		dA Tailing Master Mix	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 10 - 30%
		PCR Master Mix	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 10 - 30%
		First Strand Master Mix	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%
		Uracil DNA Glycosylase (UDG)	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 10 - 30%
			Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: > 60%

**SECTION 2: Hazards identification**

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

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

**2.2 Label elements**

<b>Signal word</b>	:	Fragmentation Mix SureSelect Ligation Master Mix Second Strand Enzyme Mix dA Tailing Master Mix PCR Master Mix First Strand Master Mix Uracil DNA Glycosylase (UDG) SureSelect Oligo Adaptor Mix SureSelect Primer SureSelect XT 8 bp Indexes ILM Reverse PCR Primer ILM Post-Capture PCR Primer Second Strand Oligo Mix	No signal word. No signal word. No signal word. No signal word. No signal word. No signal word. No signal word. No signal word. No signal word. No signal word. No signal word. No signal word. No signal word. No signal word. No signal word. No signal word. No signal word.
<b>Hazard statements</b>	:	Fragmentation Mix SureSelect Ligation Master Mix Second Strand Enzyme Mix dA Tailing Master Mix PCR Master Mix First Strand Master Mix Uracil DNA Glycosylase (UDG) SureSelect Oligo Adaptor Mix SureSelect Primer SureSelect XT 8 bp Indexes ILM Reverse PCR Primer ILM Post-Capture PCR Primer Second Strand Oligo Mix	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Precautionary statements</b>			
<b>Prevention</b>	:	Fragmentation Mix SureSelect Ligation Master Mix Second Strand Enzyme Mix dA Tailing Master Mix PCR Master Mix First Strand Master Mix Uracil DNA Glycosylase (UDG) SureSelect Oligo Adaptor Mix SureSelect Primer SureSelect XT 8 bp Indexes ILM Reverse PCR Primer ILM Post-Capture PCR Primer	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.

**SECTION 2: Hazards identification**

		Second Strand Oligo Mix	Not applicable.
<b>Response</b>	:	Fragmentation Mix	Not applicable.
		SureSelect Ligation	Not applicable.
		Master Mix	
		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	Not applicable.
		Adaptor Mix	
		SureSelect Primer	Not applicable.
		SureSelect XT 8 bp Indexes	Not applicable.
		ILM Reverse PCR Primer	Not applicable.
		ILM Post-Capture PCR Primer	Not applicable.
<b>Storage</b>	:	Second Strand Oligo Mix	Not applicable.
		Fragmentation Mix	Not applicable.
		SureSelect Ligation	Not applicable.
		Master Mix	
		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	Not applicable.
		Adaptor Mix	
		SureSelect Primer	Not applicable.
		SureSelect XT 8 bp Indexes	Not applicable.
		ILM Reverse PCR Primer	Not applicable.
		ILM Post-Capture PCR Primer	Not applicable.
<b>Disposal</b>	:	Second Strand Oligo Mix	Not applicable.
		Fragmentation Mix	Not applicable.
		SureSelect Ligation	Not applicable.
		Master Mix	
		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	Not applicable.
		Adaptor Mix	
		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: Hazards identification

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

: Fragmentation Mix	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
SureSelect Ligation Master Mix	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Second Strand Enzyme Mix	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
dA Tailing Master Mix	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
PCR Master Mix	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
First Strand Master Mix	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Uracil DNA Glycosylase (UDG)	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
SureSelect Oligo Adaptor Mix	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
SureSelect Primer	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
SureSelect XT 8 bp Indexes	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
ILM Reverse PCR Primer	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
ILM Post-Capture PCR Primer	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Second Strand Oligo Mix	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**Other hazards which do not result in classification**

: 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/information on ingredients

**3.1 Substances**

: 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

**SECTION 3: Composition/information on ingredients**

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
<b>SureSelect Ligation Master Mix</b>					
glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥25 - ≤50	Not classified.	-	[1]
<b>Second Strand Enzyme Mix</b>					
glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥10 - ≤25	Not classified.	-	[1]
<b>dA Tailing Master Mix</b>					
glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥10 - ≤25	Not classified.	-	[1]
<b>PCR Master Mix</b>					
glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≤10	Not classified.	-	[1]
<b>First Strand Master Mix</b>					
glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥10 - ≤25	Not classified.	-	[1]
<b>Uracil DNA Glycosylase (UDG)</b>					
glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	-	[1]
			<b>See Section 16 for the full text of the H statements declared above.</b>		

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

Type

- SureSelect Ligation Master Mix [1] Substance with a workplace exposure limit
- Second Strand Enzyme Mix [1] Substance with a workplace exposure limit
- dA Tailing Master Mix [1] Substance with a workplace exposure limit
- PCR Master Mix [1] Substance with a workplace exposure limit
- First Strand Master Mix [1] Substance with a workplace exposure limit
- Uracil DNA Glycosylase (UDG) [1] Substance with a workplace exposure limit

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

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

<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. Get medical attention if irritation occurs.
	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. Get medical attention if irritation occurs.
	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. Get medical attention if irritation occurs.
	PCR Master 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.
	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. Get medical attention if irritation occurs.
	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. Get medical attention if irritation occurs.
	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.
<b>Inhalation</b>	: 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. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	Second Strand Enzyme Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	dA Tailing Master Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	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. Get medical attention if

**SECTION 4: First aid measures**

Uracil DNA Glycosylase (UDG)	symptoms occur. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
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.

**Skin contact**

: 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.
Second Strand Enzyme Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
dA Tailing Master Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
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.
Uracil DNA Glycosylase (UDG)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
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.

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<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. 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 Enzyme Mix	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	dA Tailing 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.
	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. 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.
	Uracil DNA Glycosylase (UDG)	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 Oligo Adaptor Mix	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	SureSelect Primer	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	SureSelect 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

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<b>Protection of first-aiders</b>	: Fragmentation Mix  SureSelect Ligation Master Mix Second Strand Enzyme Mix dA Tailing Master Mix  PCR Master Mix  First Strand Master Mix  Uracil DNA Glycosylase (UDG) SureSelect Oligo Adaptor Mix SureSelect Primer  SureSelect XT 8 bp Indexes ILM Reverse PCR Primer  ILM Post-Capture PCR Primer Second Strand Oligo Mix	symptoms occur.  No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training.
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**4.2 Most important symptoms and effects, both acute and delayed**

**Potential acute health effects**

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

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	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	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>Ingestion</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.

**Over-exposure signs/symptoms**

<b>Eye 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	No specific data.

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<b>Inhalation</b>	:	Primer		
	:	Second Strand Oligo Mix	No specific data.	
	:	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.	

**4.3 Indication of any immediate medical attention and special treatment needed**

## SECTION 4: First aid measures

<b>Notes to physician</b>	: Fragmentation Mix SureSelect Ligation Master Mix Second Strand Enzyme Mix dA Tailing Master Mix PCR Master Mix First Strand Master Mix Uracil DNA Glycosylase (UDG) SureSelect Oligo Adaptor Mix SureSelect Primer SureSelect XT 8 bp Indexes ILM Reverse PCR Primer ILM Post-Capture PCR Primer Second Strand Oligo Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. 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. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. 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. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
<b>Specific treatments</b>	: Fragmentation Mix SureSelect Ligation Master Mix Second Strand Enzyme Mix dA Tailing Master Mix PCR Master Mix First Strand Master Mix Uracil DNA Glycosylase (UDG) SureSelect Oligo Adaptor Mix SureSelect Primer SureSelect XT 8 bp Indexes ILM Reverse PCR Primer ILM Post-Capture PCR Primer Second Strand Oligo Mix	No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	: Fragmentation Mix SureSelect Ligation Master Mix Second Strand Enzyme Mix dA Tailing Master Mix PCR Master Mix First Strand Master Mix Uracil DNA Glycosylase (UDG) SureSelect Oligo Adaptor Mix SureSelect Primer	Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.
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**SECTION 5: Firefighting measures**

	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.
<b>Unsuitable extinguishing media</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.

**5.2 Special hazards arising from the substance or mixture**

<b>Hazards from the substance or mixture</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 combustion products</b>	: Fragmentation Mix
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

**SECTION 5: Firefighting measures**

	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: 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.

**5.3 Advice for firefighters**

**Special precautions for fire-fighters**

: 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	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**SECTION 5: Firefighting measures**

**Special protective equipment for fire-fighters**

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

## SECTION 5: Firefighting measures

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

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

: 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 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.
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. 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. 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. 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. 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

**SECTION 6: Accidental release measures**

		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.
	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".

**SECTION 6: Accidental release measures**

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 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".
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".

**6.2 Environmental precautions**

: 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).
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

**SECTION 6: Accidental release measures**

authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

**6.3 Methods and material for containment and cleaning up**

**Methods for cleaning up** : 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 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

## SECTION 6: Accidental release measures

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

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

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

**Protective measures** : Fragmentation Mix Put on appropriate personal protective equipment (see Section 8).  
 SureSelect Ligation Master Mix Put on appropriate personal protective equipment (see Section 8).  
 Second Strand Enzyme Mix Put on appropriate personal protective equipment (see Section 8).  
 dA Tailing Master Mix Put on appropriate personal protective equipment (see Section 8).  
 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).  
 Uracil DNA Glycosylase (UDG) Put on appropriate personal protective equipment (see Section 8).  
 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 7: Handling and storage**

PCR Master Mix	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.
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 contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Uracil DNA Glycosylase (UDG)	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.

**7.2 Conditions for safe storage, including any incompatibilities**

**SECTION 7: Handling and storage**

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

## SECTION 7: Handling and storage

	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 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 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

**SECTION 7: Handling and storage**

contamination. See Section 10 for incompatible materials before handling or use.

**7.3 Specific end use(s)**

**Recommendations**

- : Fragmentation Mix Industrial applications, Professional applications.
- SureSelect Ligation Master Mix Industrial applications, Professional applications.
- Second Strand Enzyme Mix Industrial applications, Professional applications.
- dA Tailing Master Mix Industrial applications, Professional applications.
- PCR Master Mix Industrial applications, Professional applications.
- First Strand Master Mix Industrial applications, Professional applications.
- Uracil DNA Glycosylase (UDG) Industrial applications, Professional applications.
- SureSelect Oligo Adaptor Mix Industrial applications, Professional applications.
- SureSelect Primer Industrial applications, Professional applications.
- SureSelect XT 8 bp Indexes Industrial applications, Professional applications.
- ILM Reverse PCR Primer Industrial applications, Professional applications.
- ILM Post-Capture PCR Primer Industrial applications, Professional applications.
- Second Strand Oligo Mix Industrial applications, Professional applications.

**Industrial sector specific solutions**

- : 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.

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

**Occupational exposure limits**

Product/ingredient name	Exposure limit values
SureSelect Ligation Master Mix Glycerol	NAOSH (Ireland, 5/2021). Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV-8hr: 10 mg/m <sup>3</sup> 8 hours. Form: mist
Second Strand Enzyme Mix Glycerol	NAOSH (Ireland, 5/2021). Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV-8hr: 10 mg/m <sup>3</sup> 8 hours. Form: mist
dA Tailing Master Mix Glycerol	NAOSH (Ireland, 5/2021). Notes: Advisory Occupational

## SECTION 8: Exposure controls/personal protection

<p><b>PCR Master Mix</b> Glycerol</p>	<p><b>Exposure Limit Values (OELVs)</b> OELV-8hr: 10 mg/m<sup>3</sup> 8 hours. Form: mist</p> <p><b>NAOSH (Ireland, 5/2021). Notes: Advisory Occupational Exposure Limit Values (OELVs)</b> OELV-8hr: 10 mg/m<sup>3</sup> 8 hours. Form: mist</p>
<p><b>First Strand Master Mix</b> Glycerol</p>	<p><b>NAOSH (Ireland, 5/2021). Notes: Advisory Occupational Exposure Limit Values (OELVs)</b> OELV-8hr: 10 mg/m<sup>3</sup> 8 hours. Form: mist</p>
<p><b>Uracil DNA Glycosylase (UDG)</b> Glycerol</p>	<p><b>NAOSH (Ireland, 5/2021). Notes: Advisory Occupational Exposure Limit Values (OELVs)</b> OELV-8hr: 10 mg/m<sup>3</sup> 8 hours. Form: mist</p>

### Biological exposure indices

No exposure indices known.

### Recommended monitoring procedures

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

### DNELs/DMELs

No DNELs/DMELs available.

### PNECs

No PNECs available

## 8.2 Exposure controls

### Appropriate engineering controls

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

### Individual protection measures

#### Hygiene measures

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

#### Eye/face protection

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

#### Skin protection

##### Hand protection

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

##### Body protection

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

##### Other skin protection

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

## SECTION 8: Exposure controls/personal protection

- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and chemical properties

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

### 9.1 Information on basic physical and chemical properties

#### Appearance

<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.	
		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.	

**SECTION 9: Physical and chemical properties**

	SureSelect Oligo	Not available.
	Adaptor Mix	
	SureSelect Primer	Not available.
	SureSelect XT 8 bp	Not available.
	Indexes	
	ILM Reverse PCR Primer	Not available.
	ILM Post-Capture PCR	Not available.
	Primer	
	Second Strand Oligo Mix	Not available.
<b>Odour threshold</b>	: Fragmentation Mix	Not available.
	SureSelect Ligation	Not available.
	Master Mix	
	Second Strand Enzyme	Not available.
	Mix	
	dA Tailing Master Mix	Not available.
	PCR Master Mix	Not available.
	First Strand Master Mix	Not available.
	Uracil DNA Glycosylase	Not available.
	(UDG)	
	SureSelect Oligo	Not available.
	Adaptor Mix	
	SureSelect Primer	Not available.
	SureSelect XT 8 bp	Not available.
	Indexes	
	ILM Reverse PCR Primer	Not available.
	ILM Post-Capture PCR	Not available.
	Primer	
	Second Strand Oligo Mix	Not available.
<b>Melting point/freezing point</b>	: Fragmentation Mix	0°C
	SureSelect Ligation	Not available.
	Master Mix	
	Second Strand Enzyme	Not available.
	Mix	
	dA Tailing Master Mix	Not available.
	PCR Master Mix	Not available.
	First Strand Master Mix	Not available.
	Uracil DNA Glycosylase	Not available.
	(UDG)	
	SureSelect Oligo	0°C
	Adaptor Mix	
	SureSelect Primer	0°C
	SureSelect XT 8 bp	0°C
	Indexes	
	ILM Reverse PCR Primer	0°C
	ILM Post-Capture PCR	0°C
	Primer	
	Second Strand Oligo Mix	Not available.
<b>Initial boiling point and boiling range</b>	: Fragmentation Mix	100°C
	SureSelect Ligation	Not available.
	Master Mix	
	Second Strand Enzyme	Not available.
	Mix	
	dA Tailing Master Mix	Not available.
	PCR Master Mix	Not available.
	First Strand Master Mix	Not available.
	Uracil DNA Glycosylase	Not available.
	(UDG)	
	SureSelect Oligo	100°C
	Adaptor Mix	
	SureSelect Primer	100°C
	SureSelect XT 8 bp	100°C
	Indexes	
	ILM Reverse PCR Primer	100°C

**SECTION 9: Physical and chemical properties**

**Flammability** : ILM Post-Capture PCR 100°C  
 Primer  
 Second Strand Oligo Mix Not available.  
 Fragmentation Mix Not applicable.  
 SureSelect Ligation Not applicable.  
 Master Mix  
 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 Not applicable.  
 Adaptor Mix  
 SureSelect Primer Not applicable.  
 SureSelect XT 8 bp Not applicable.  
 Indexes  
 ILM Reverse PCR Primer Not applicable.  
 ILM Post-Capture PCR Primer Not applicable.  
 Second Strand Oligo Mix Not applicable.  
**Upper/lower flammability or explosive limits** : 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 Not available.  
 Adaptor Mix  
 SureSelect Primer Not available.  
 SureSelect XT 8 bp Not available.  
 Indexes  
 ILM Reverse PCR Primer Not available.  
 ILM Post-Capture PCR Primer Not available.  
 Second Strand Oligo Mix Not available.

**Flash point** :

Ingredient name	Closed cup		Open cup	
	°C	Method	°C	Method
<b>SureSelect Ligation Master Mix</b>				
glycerol	-	-	177	-
<b>Second Strand Enzyme Mix</b>				
glycerol	-	-	177	-
<b>dA Tailing Master Mix</b>				
glycerol	-	-	177	-
<b>PCR Master Mix</b>				
glycerol	-	-	177	-

**SECTION 9: Physical and chemical properties**

**Auto-ignition temperature**

	<b>First Strand Master Mix</b>				
	glycerol	-	-	177	-
	<b>Uracil DNA Glycosylase (UDG)</b>				
	glycerol	-	-	177	-
	<b>Ingredient name</b>	<b>°C</b>		<b>Method</b>	
	<b>SureSelect Ligation Master Mix</b>				
	glycerol	370		-	
	<b>Second Strand Enzyme Mix</b>				
	glycerol	370		-	
	<b>dA Tailing Master Mix</b>				
	glycerol	370		-	
	<b>PCR Master Mix</b>				
	glycerol	370		-	
	<b>First Strand Master Mix</b>				
	glycerol	370		-	
	<b>Uracil DNA Glycosylase (UDG)</b>				
	glycerol	370		-	

**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.

**pH**

	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

**SECTION 9: Physical and chemical properties**

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  
 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**

:

**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

**SECTION 9: Physical and chemical properties**

**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.

**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	-

**SECTION 9: Physical and chemical properties**

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	-
<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	-

**Evaporation rate**

- : 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.

**SECTION 9: Physical and chemical properties**

<b>Relative 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>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>Explosive properties</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.	

## SECTION 9: Physical and chemical properties

<b>Oxidising properties</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.

### Particle 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.

### 9.2 Other information

No additional information.

## SECTION 10: Stability and reactivity

<b>10.1 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.

**SECTION 10: Stability and reactivity**

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.

**10.2 Chemical stability**

: 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.
Second Strand Oligo Mix	The product is stable.

**10.3 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.

## SECTION 10: Stability and reactivity

<b>10.4 Conditions to avoid</b>	: Fragmentation Mix SureSelect Ligation Master Mix Second Strand Enzyme Mix dA Tailing Master Mix PCR Master Mix First Strand Master Mix Uracil DNA Glycosylase (UDG) SureSelect Oligo Adaptor Mix SureSelect Primer SureSelect XT 8 bp Indexes ILM Reverse PCR Primer ILM Post-Capture PCR Primer Second Strand Oligo Mix	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data.
<b>10.5 Incompatible materials</b>	: Fragmentation Mix SureSelect Ligation Master Mix Second Strand Enzyme Mix dA Tailing Master Mix PCR Master Mix First Strand Master Mix Uracil DNA Glycosylase (UDG) SureSelect Oligo Adaptor Mix SureSelect Primer SureSelect XT 8 bp Indexes ILM Reverse PCR Primer ILM Post-Capture PCR Primer Second Strand Oligo Mix	May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.
<b>10.6 Hazardous decomposition products</b>	: Fragmentation Mix SureSelect Ligation Master Mix Second Strand Enzyme Mix dA Tailing Master Mix PCR Master Mix First Strand Master Mix Uracil DNA Glycosylase (UDG) SureSelect Oligo Adaptor Mix SureSelect Primer SureSelect XT 8 bp Indexes ILM Reverse PCR Primer ILM Post-Capture PCR	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 10: Stability and reactivity

Primer	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

### 11.1 Information on toxicological effects

#### Acute toxicity

Not available.

#### Acute toxicity estimates

N/A

#### Irritation/Corrosion

**Conclusion/Summary** : Not available.

#### Sensitiser

**Conclusion/Summary** : Not available.

#### Mutagenicity

**Conclusion/Summary** : Not available.

#### Carcinogenicity

**Conclusion/Summary** : Not available.

#### Reproductive toxicity

**Conclusion/Summary** : Not available.

#### Teratogenicity

**Conclusion/Summary** : Not available.

#### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Not available.

#### Aspiration hazard

Not available.

#### Information on likely routes of exposure

Fragmentation Mix	Not available.
SureSelect Ligation Master Mix	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
Second Strand Enzyme Mix	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
dA Tailing Master Mix	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
PCR Master Mix	Not available.
First Strand Master Mix	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
Uracil DNA Glycosylase (UDG)	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
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.

#### Potential acute health effects

## SECTION 11: Toxicological information

<b>Inhalation</b>	:	Fragmentation Mix	No known significant effects or critical hazards.
		SureSelect Ligation	No known significant effects or critical hazards.
		Master Mix	
		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	No known significant effects or critical hazards.
		Adaptor Mix	
		SureSelect Primer	No known significant effects or critical hazards.
		SureSelect XT 8 bp	No known significant effects or critical hazards.
		Indexes	
		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	No known significant effects or critical hazards.
		SureSelect Ligation	No known significant effects or critical hazards.
		Master Mix	
		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	No known significant effects or critical hazards.
		Adaptor Mix	
		SureSelect Primer	No known significant effects or critical hazards.
		SureSelect XT 8 bp	No known significant effects or critical hazards.
		Indexes	
		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	No known significant effects or critical hazards.
		SureSelect Ligation	No known significant effects or critical hazards.
		Master Mix	
		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	No known significant effects or critical hazards.
		Adaptor Mix	
		SureSelect Primer	No known significant effects or critical hazards.
		SureSelect XT 8 bp	No known significant effects or critical hazards.
		Indexes	
		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.	

**SECTION 11: Toxicological information**

<b>Eye contact</b>	:	Fragmentation Mix	No known significant effects or critical hazards.
		SureSelect Ligation	No known significant effects or critical hazards.
		Master Mix	
		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	No known significant effects or critical hazards.
		Adaptor Mix	
		SureSelect Primer	No known significant effects or critical hazards.
		SureSelect XT 8 bp	No known significant effects or critical hazards.
		Indexes	
		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>Inhalation</b>	:	Fragmentation Mix	No specific data.
		SureSelect Ligation	No specific data.
		Master Mix	
		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	No specific data.
		Adaptor Mix	
		SureSelect Primer	No specific data.
		SureSelect XT 8 bp	No specific data.
		Indexes	
		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	No specific data.
		Master Mix	
		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	No specific data.
		Adaptor Mix	
		SureSelect Primer	No specific data.
		SureSelect XT 8 bp	No specific data.
		Indexes	
		ILM Reverse PCR Primer	No specific data.
		ILM Post-Capture PCR Primer	No specific data.
	Second Strand Oligo Mix	No specific data.	

## SECTION 11: Toxicological information

<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>Eye 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.	

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

#### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Potential chronic health effects

**Conclusion/Summary** : Not available.

<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	No known significant effects or critical hazards.

**SECTION 11: Toxicological information**

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

**SECTION 11: Toxicological information**

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.

**11.2 Information on other hazards**

**11.2.1 Endocrine disrupting properties**

Not available.

**11.2.2 Other information**

Not available.

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Conclusion/Summary** : Not available.

**12.2 Persistence and degradability**

Not available.

**12.3 Bioaccumulative potential**

Not available.

**12.4 Mobility in soil**

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Mobility** : Not available.

**12.5 Results of PBT and vPvB assessment**

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

**12.6 Endocrine disrupting properties**

Not available.

**12.7 Other adverse effects**

No known significant effects or critical hazards.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

Product

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

**Hazardous waste** : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

Packaging

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

## SECTION 13: Disposal considerations

**Special precautions** : This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	No.	No.	No.

### Additional information

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

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

## SECTION 15: Regulatory information

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
[EU Regulation \(EC\) No. 1907/2006 \(REACH\)](#)

[Annex XIV - List of substances subject to authorisation](#)

### [Annex XIV](#)

None of the components are listed.

### [Substances of very high concern](#)

None of the components are listed.

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

No listed substance

**Label** : 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 Not applicable.

## SECTION 15: Regulatory information

Primer  
Second Strand Oligo Mix      Not applicable.

### Other EU regulations

#### Ozone depleting substances (1005/2009/EU)

Not listed.

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

Not listed.

#### Persistent Organic Pollutants

Not listed.

#### Seveso Directive

This product is not controlled under the Seveso Directive.

### International regulations

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

Not listed.

#### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

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

Not listed.

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

Not listed.

### Inventory list

<b>Australia</b>	: Not determined.
<b>Canada</b>	: Not determined.
<b>China</b>	: Not determined.
<b>Eurasian Economic Union</b>	: <b>Russian Federation inventory:</b> Not determined.
<b>Japan</b>	: <b>Japan inventory (CSCL):</b> Not determined. <b>Japan inventory (ISHL):</b> Not determined.
<b>New Zealand</b>	: Not determined.
<b>Philippines</b>	: Not determined.
<b>Republic of Korea</b>	: Not determined.
<b>Taiwan</b>	: Not determined.
<b>Thailand</b>	: Not determined.
<b>Turkey</b>	: Not determined.
<b>United States</b>	: Not determined.
<b>Viet Nam</b>	: Not determined.

**15.2 Chemical safety assessment** : This product contains substances for which Chemical Safety Assessments might still be required.

**SECTION 16: Other information**

Indicates information that has changed from previously issued version.

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

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

Classification	Justification
Not classified.	

**Full text of abbreviated H statements**

Not applicable.

**Full text of classifications [CLP/GHS]**

Not applicable.

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

**Date of previous issue** : No previous validation

**Version** : 1

**Notice to reader**

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