

SAFETY DATA SHEET



Early Access SureSelect XT HS Library Prep Kit, ILM 96 Reactions, Part Number 5500-0139

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

1.1 Product identifier

Product name	: Early Access SureSelect XT HS Library Prep Kit, ILM 96 Reactions, Part Number 5500-0139
Part no. (chemical kit)	: 5500-0139
Part no.	: End Repair-A Tailing Enzyme Mix 5190-6435 End Repair-A Tailing Buffer 5190-6436 T4 DNA Ligase 5190-6437 Ligation Buffer 5190-6438 Adaptor Oligo Mix 5190-6439 Forward Primer 5190-6440 100 mM dNTP Mix (25 mM each dNTP) 200418-51 5X Herculase II Reaction Buffer 600675-52 Herculase II Fusion DNA Polymerase 600679-51 SureSelect XT HS Index Primer A01- A02 5190-6419 / 5190-6420 / 5190-6421 / 5190-6422 / 5190-6423 / 5190-6424 / 5190-6425 / 5190-6426 / 5190-6427 / 5190-6428 / 5190-6429 / 5190-6430 / 5190-6431 / 5190-6432 / 5190-6433 / 5190-6434

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

Material uses	: Analytical reagent.
	End Repair-A Tailing Enzyme Mix 0.384 mL (96 reactions)
	End Repair-A Tailing Buffer 1.536 mL (96 reactions)
	T4 DNA Ligase 0.192 mL (96 reactions)
	Ligation Buffer 2.208 mL (96 reactions)
	Adaptor Oligo Mix 0.48 mL (96 reactions)
	Forward Primer 0.192 mL (96 reactions)
	100 mM dNTP Mix (25 mM each dNTP) 2 x 0.1 mL
	5X Herculase II Reaction Buffer 2 x 1.5 mL
	Herculase II Fusion DNA Polymerase 0.4 mL (400 reactions)
	SureSelect XT HS Index Primer A01- A02 0.012 mL

1.3 Details of the supplier of the safety data sheet

Agilent Technologies Manufacturing GmbH & Co. KG
Hewlett-Packard-Str. 8
76337 Waldbronn
Germany
0800 603 1000

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

1.4 Emergency telephone number

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition	:	End Repair-A Tailing Enzyme Mix	Mixture
		End Repair-A Tailing Buffer	Mixture
		T4 DNA Ligase	Mixture
		Ligation Buffer	Mixture
		Adaptor Oligo Mix	Mixture
		Forward Primer	Mixture
		100 mM dNTP Mix (25 mM each dNTP)	Mixture
		5X Herculase II Reaction Buffer	Mixture
		Herculase II Fusion DNA Polymerase	Mixture
		SureSelect XT HS Index Primer A01-H02	Mixture

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

Not classified.

Ingredients of unknown toxicity	:	End Repair-A Tailing Enzyme Mix	Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 30 - 60%
		End Repair-A Tailing Buffer	Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10%
			Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 1 - 10%
		T4 DNA Ligase	Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 1 - 10%
		Ligation Buffer	Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 30 - 60%
		100 mM dNTP Mix (25 mM each dNTP)	Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10%
			Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 1 - 10%
			Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 1 - 10%
		5X Herculase II Reaction Buffer	Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10%
			Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 1 - 10%
		Herculase II Fusion DNA Polymerase	Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 30 - 60%
Ingredients of unknown ecotoxicity	:	End Repair-A Tailing Buffer	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 1.7%
		100 mM dNTP Mix (25 mM each dNTP)	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 5.4%

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

SECTION 2: Hazards identification

Signal word	:	<ul style="list-style-type: none"> End Repair-A Tailing Enzyme Mix End Repair-A Tailing Buffer T4 DNA Ligase Ligation Buffer Adaptor Oligo Mix Forward Primer 100 mM dNTP Mix (25 mM each dNTP) 5X Herculase II Reaction Buffer Herculase II Fusion DNA Polymerase SureSelect XT HS Index Primer A01-H02 	<ul style="list-style-type: none"> 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.
Hazard statements	:	<ul style="list-style-type: none"> End Repair-A Tailing Enzyme Mix End Repair-A Tailing Buffer T4 DNA Ligase Ligation Buffer Adaptor Oligo Mix Forward Primer 100 mM dNTP Mix (25 mM each dNTP) 5X Herculase II Reaction Buffer Herculase II Fusion DNA Polymerase SureSelect XT HS Index Primer A01-H02 	<ul style="list-style-type: none"> 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.
Precautionary statements			
Prevention	:	<ul style="list-style-type: none"> End Repair-A Tailing Enzyme Mix End Repair-A Tailing Buffer T4 DNA Ligase Ligation Buffer Adaptor Oligo Mix Forward Primer 100 mM dNTP Mix (25 mM each dNTP) 5X Herculase II Reaction Buffer Herculase II Fusion DNA Polymerase SureSelect XT HS Index Primer A01-H02 	<ul style="list-style-type: none"> Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
Response	:	<ul style="list-style-type: none"> End Repair-A Tailing Enzyme Mix End Repair-A Tailing Buffer T4 DNA Ligase Ligation Buffer Adaptor Oligo Mix Forward Primer 100 mM dNTP Mix (25 mM each dNTP) 5X Herculase II Reaction Buffer 	<ul style="list-style-type: none"> Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.

SECTION 2: Hazards identification

	Herculase II Fusion DNA Polymerase	Not applicable.
	SureSelect XT HS Index Primer A01-H02	Not applicable.
Storage	: <input checked="" type="checkbox"/> End Repair-A Tailing Enzyme Mix	Not applicable.
	End Repair-A Tailing Buffer	Not applicable.
	T4 DNA Ligase	Not applicable.
	Ligation Buffer	Not applicable.
	Adaptor Oligo Mix	Not applicable.
	Forward Primer	Not applicable.
	100 mM dNTP Mix (25 mM each dNTP)	Not applicable.
	5X Herculase II Reaction Buffer	Not applicable.
	Herculase II Fusion DNA Polymerase	Not applicable.
	SureSelect XT HS Index Primer A01-H02	Not applicable.
Disposal	: <input checked="" type="checkbox"/> End Repair-A Tailing Enzyme Mix	Not applicable.
	End Repair-A Tailing Buffer	Not applicable.
	T4 DNA Ligase	Not applicable.
	Ligation Buffer	Not applicable.
	Adaptor Oligo Mix	Not applicable.
	Forward Primer	Not applicable.
	100 mM dNTP Mix (25 mM each dNTP)	Not applicable.
	5X Herculase II Reaction Buffer	Not applicable.
	Herculase II Fusion DNA Polymerase	Not applicable.
	SureSelect XT HS Index Primer A01-H02	Not applicable.
Hazardous ingredients	: <input checked="" type="checkbox"/> End Repair-A Tailing Buffer	Not applicable.
	5X Herculase II Reaction Buffer	Not applicable.
Supplemental label elements	: <input checked="" type="checkbox"/> End Repair-A Tailing Enzyme Mix	Not applicable.
	End Repair-A Tailing Buffer	Safety data sheet available on request.
	T4 DNA Ligase	Not applicable.
	Ligation Buffer	Not applicable.
	Adaptor Oligo Mix	Not applicable.
	Forward Primer	Not applicable.
	100 mM dNTP Mix (25 mM each dNTP)	Not applicable.
	5X Herculase II Reaction Buffer	Safety data sheet available on request.
	Herculase II Fusion DNA Polymerase	Not applicable.
	SureSelect XT HS Index Primer A01-H02	Not applicable.

SECTION 2: Hazards identification

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	<input checked="" type="checkbox"/> End Repair-A Tailing Enzyme Mix	Not applicable.
	<input type="checkbox"/> End Repair-A Tailing Buffer	Not applicable.
	<input type="checkbox"/> T4 DNA Ligase	Not applicable.
	<input type="checkbox"/> Ligation Buffer	Not applicable.
	<input type="checkbox"/> Adaptor Oligo Mix	Not applicable.
	<input type="checkbox"/> Forward Primer	Not applicable.
	<input type="checkbox"/> 100 mM dNTP Mix (25 mM each dNTP)	Not applicable.
	<input type="checkbox"/> 5X Herculase II Reaction Buffer	Not applicable.
	<input type="checkbox"/> Herculase II Fusion DNA Polymerase	Not applicable.
	<input type="checkbox"/> SureSelect XT HS Index Primer A01-H02	Not applicable.

Special packaging requirements

Tactile warning of danger	<input checked="" type="checkbox"/> End Repair-A Tailing Enzyme Mix	Not applicable.
	<input type="checkbox"/> End Repair-A Tailing Buffer	Not applicable.
	<input type="checkbox"/> T4 DNA Ligase	Not applicable.
	<input type="checkbox"/> Ligation Buffer	Not applicable.
	<input type="checkbox"/> Adaptor Oligo Mix	Not applicable.
	<input type="checkbox"/> Forward Primer	Not applicable.
	<input type="checkbox"/> 100 mM dNTP Mix (25 mM each dNTP)	Not applicable.
	<input type="checkbox"/> 5X Herculase II Reaction Buffer	Not applicable.
	<input type="checkbox"/> Herculase II Fusion DNA Polymerase	Not applicable.
	<input type="checkbox"/> SureSelect XT HS Index Primer A01-H02	Not applicable.

2.3 Other hazards

Other hazards which do not result in classification	<input checked="" type="checkbox"/> End Repair-A Tailing Enzyme Mix	None known.
	<input type="checkbox"/> End Repair-A Tailing Buffer	None known.
	<input type="checkbox"/> T4 DNA Ligase	None known.
	<input type="checkbox"/> Ligation Buffer	None known.
	<input type="checkbox"/> Adaptor Oligo Mix	None known.
	<input type="checkbox"/> Forward Primer	None known.
	<input type="checkbox"/> 100 mM dNTP Mix (25 mM each dNTP)	None known.
	<input type="checkbox"/> 5X Herculase II Reaction Buffer	None known.
	<input type="checkbox"/> Herculase II Fusion DNA Polymerase	None known.
	<input type="checkbox"/> SureSelect XT HS Index Primer A01-H02	None known.

SECTION 3: Composition/information on ingredients

3.1 Substances	<input checked="" type="checkbox"/> End Repair-A Tailing Enzyme Mix	Mixture
	<input type="checkbox"/> End Repair-A Tailing Buffer	Mixture
	<input type="checkbox"/> T4 DNA Ligase	Mixture
	<input type="checkbox"/> Ligation Buffer	Mixture
	<input type="checkbox"/> Adaptor Oligo Mix	Mixture
	<input type="checkbox"/> Forward Primer	Mixture
	<input type="checkbox"/> 100 mM dNTP Mix (25 mM each)	Mixture

Early Access SureSelect XT HS Library Prep Kit, ILM 96 Reactions, Part Number 5500-0139

SECTION 3: Composition/information on ingredients

dNTP)
 5X Herculase II Reaction Buffer Mixture
 Herculase II Fusion DNA Mixture
 Polymerase
 SureSelect XT HS Index Primer Mixture
 A01-H02

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
End Repair-A Tailing Enzyme Mix Glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	[2]
End Repair-A Tailing Buffer 2-Amino-2-(hydroxymethyl) propane-1,3-diol hydrochloride	EC: 214-684-5 CAS: 1185-53-1	≤3	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	[1]
T4 DNA Ligase Glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	[2]
Ligation Buffer Glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥10 - ≤25	Not classified.	[2]
5X Herculase II Reaction Buffer Trometamol	EC: 201-064-4 CAS: 77-86-1	≤3	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	[1]
Ammonium sulphate	EC: 231-984-1 CAS: 7783-20-2	<2.5	Aquatic Acute 1, H400 (M=10) Aquatic Chronic 3, H412	[1]
Hexadecan-1-ol, ethoxylated	EC: 500-014-1 CAS: 9004-95-9	≤3	Skin Irrit. 2, H315	[1]
Herculase II Fusion DNA Polymerase Glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified. See Section 16 for the full text of the H statements declared above.	[2]

Type

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

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	: End Repair-A Tailing 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.
	End Repair-A Tailing Buffer	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	T4 DNA Ligase	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Ligation Buffer	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Adaptor Oligo Mix	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Forward 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.
	100 mM dNTP Mix (25 mM each dNTP)	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	5X Herculase II Reaction Buffer	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Herculase II Fusion DNA Polymerase	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	SureSelect XT HS Index Primer A01-H02	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	: End Repair-A Tailing Enzyme Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	End Repair-A Tailing Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	T4 DNA Ligase	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Ligation Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Adaptor Oligo Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Forward Primer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	100 mM dNTP Mix (25 mM each dNTP)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	5X Herculase II Reaction Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition

SECTION 4: First aid measures

		products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	Herculase II Fusion DNA Polymerase	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SureSelect XT HS Index Primer A01-H02	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	: End Repair-A Tailing Enzyme Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	End Repair-A Tailing Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	T4 DNA Ligase	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Ligation Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Adaptor Oligo Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Forward Primer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	100 mM dNTP Mix (25 mM each dNTP)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	5X Herculase II Reaction Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Herculase II Fusion DNA Polymerase	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SureSelect XT HS Index Primer A01-H02	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: End Repair-A Tailing Enzyme Mix	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	End Repair-A Tailing Buffer	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	T4 DNA Ligase	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	Ligation Buffer	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not

SECTION 4: First aid measures

Adaptor Oligo Mix	induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Forward Primer	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
100 mM dNTP Mix (25 mM each dNTP)	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
5X Herculase II Reaction Buffer	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Herculase II Fusion DNA Polymerase	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
SureSelect XT HS Index Primer A01-H02	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Protection of first-aiders :	
End Repair-A Tailing Enzyme Mix	No action shall be taken involving any personal risk or without suitable training.
End Repair-A Tailing Buffer	No action shall be taken involving any personal risk or without suitable training.
T4 DNA Ligase	No action shall be taken involving any personal risk or without suitable training.
Ligation Buffer	No action shall be taken involving any personal risk or without suitable training.
Adaptor Oligo Mix	No action shall be taken involving any personal risk or without suitable training.
Forward Primer	No action shall be taken involving any personal risk or without suitable training.
100 mM dNTP Mix (25 mM each dNTP)	No action shall be taken involving any personal risk or without suitable training.
5X Herculase II Reaction Buffer	No action shall be taken involving any personal risk or without suitable training.
Herculase II Fusion DNA Polymerase	No action shall be taken involving any personal risk or without suitable training.
SureSelect XT HS Index Primer A01-H02	No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

SECTION 4: First aid measures

Eye contact	:	End Repair-A Tailing Enzyme Mix	No known significant effects or critical hazards.
		End Repair-A Tailing Buffer	No known significant effects or critical hazards.
		T4 DNA Ligase	No known significant effects or critical hazards.
		Ligation Buffer	No known significant effects or critical hazards.
		Adaptor Oligo Mix	No known significant effects or critical hazards.
		Forward Primer	No known significant effects or critical hazards.
		100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
		5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
		Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
		SureSelect XT HS Index Primer A01-H02	No known significant effects or critical hazards.
	Inhalation	:	End Repair-A Tailing Enzyme Mix
		End Repair-A Tailing Buffer	No known significant effects or critical hazards.
		T4 DNA Ligase	No known significant effects or critical hazards.
		Ligation Buffer	No known significant effects or critical hazards.
		Adaptor Oligo Mix	No known significant effects or critical hazards.
		Forward Primer	No known significant effects or critical hazards.
		100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
		5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
		Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
		SureSelect XT HS Index Primer A01-H02	No known significant effects or critical hazards.
Skin contact		:	End Repair-A Tailing Enzyme Mix
		End Repair-A Tailing Buffer	No known significant effects or critical hazards.
		T4 DNA Ligase	No known significant effects or critical hazards.
		Ligation Buffer	No known significant effects or critical hazards.
		Adaptor Oligo Mix	No known significant effects or critical hazards.
		Forward Primer	No known significant effects or critical hazards.
		100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
		5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
		Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
		SureSelect XT HS Index Primer A01-H02	No known significant effects or critical hazards.
	Ingestion	:	End Repair-A Tailing Enzyme Mix
		End Repair-A Tailing Buffer	No known significant effects or critical hazards.
		T4 DNA Ligase	No known significant effects or critical hazards.
		Ligation Buffer	No known significant effects or critical hazards.
		Adaptor Oligo Mix	No known significant effects or critical hazards.
		Forward Primer	No known significant effects or critical hazards.
		100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
		5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
		Herculase II Fusion DNA	No known significant effects or critical hazards.

SECTION 4: First aid measures

Polymerase
SureSelect XT HS Index
Primer A01-H02

No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	:	<p>End Repair-A Tailing Enzyme Mix End Repair-A Tailing Buffer T4 DNA Ligase Ligation Buffer Adaptor Oligo Mix Forward Primer 100 mM dNTP Mix (25 mM each dNTP) 5X Herculase II Reaction Buffer Herculase II Fusion DNA Polymerase SureSelect XT HS Index Primer A01-H02</p>	<p>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.</p>
Inhalation	:	<p>End Repair-A Tailing Enzyme Mix End Repair-A Tailing Buffer T4 DNA Ligase Ligation Buffer Adaptor Oligo Mix Forward Primer 100 mM dNTP Mix (25 mM each dNTP) 5X Herculase II Reaction Buffer Herculase II Fusion DNA Polymerase SureSelect XT HS Index Primer A01-H02</p>	<p>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.</p>
Skin contact	:	<p>End Repair-A Tailing Enzyme Mix End Repair-A Tailing Buffer T4 DNA Ligase Ligation Buffer Adaptor Oligo Mix Forward Primer 100 mM dNTP Mix (25 mM each dNTP) 5X Herculase II Reaction Buffer Herculase II Fusion DNA Polymerase SureSelect XT HS Index Primer A01-H02</p>	<p>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.</p>
Ingestion	:	<p>End Repair-A Tailing Enzyme Mix End Repair-A Tailing Buffer T4 DNA Ligase Ligation Buffer Adaptor Oligo Mix Forward Primer 100 mM dNTP Mix (25 mM each dNTP)</p>	<p>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.</p>

SECTION 4: First aid measures

mM each dNTP)	
5X Herculase II Reaction Buffer	No specific data.
Herculase II Fusion DNA Polymerase	No specific data.
SureSelect XT HS Index Primer A01-H02	No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: End Repair-A Tailing Enzyme Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	End Repair-A Tailing Buffer	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	T4 DNA Ligase	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Ligation Buffer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Adaptor Oligo Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Forward Primer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	100 mM dNTP Mix (25 mM each dNTP)	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	5X Herculase II Reaction Buffer	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	Herculase II Fusion DNA Polymerase	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SureSelect XT HS Index Primer A01-H02	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments	: End Repair-A Tailing Enzyme Mix	No specific treatment.
	End Repair-A Tailing Buffer	No specific treatment.
	T4 DNA Ligase	No specific treatment.
	Ligation Buffer	No specific treatment.
	Adaptor Oligo Mix	No specific treatment.
	Forward Primer	No specific treatment.
	100 mM dNTP Mix (25 mM each dNTP)	No specific treatment.
	5X Herculase II Reaction Buffer	No specific treatment.
	Herculase II Fusion DNA Polymerase	No specific treatment.
	SureSelect XT HS Index Primer A01-H02	No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	: End Repair-A Tailing Enzyme Mix	Use an extinguishing agent suitable for the surrounding fire.
	End Repair-A Tailing Buffer	Use an extinguishing agent suitable for the surrounding fire.
	T4 DNA Ligase	Use an extinguishing agent suitable for the surrounding fire.
	Ligation Buffer	Use an extinguishing agent suitable for the surrounding fire.
	Adaptor Oligo Mix	Use an extinguishing agent suitable for the surrounding fire.
	Forward Primer	Use an extinguishing agent suitable for the surrounding fire.
	100 mM dNTP Mix (25 mM each dNTP)	Use an extinguishing agent suitable for the surrounding fire.

SECTION 5: Firefighting measures

	mM each dNTP)	
	5X Herculase II Reaction Buffer	Use an extinguishing agent suitable for the surrounding fire.
	Herculase II Fusion DNA Polymerase	Use an extinguishing agent suitable for the surrounding fire.
	SureSelect XT HS Index Primer A01-H02	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	End Repair-A Tailing Enzyme Mix	None known.
	End Repair-A Tailing Buffer	None known.
	T4 DNA Ligase Ligation Buffer	None known.
	Adaptor Oligo Mix Forward Primer	None known.
	100 mM dNTP Mix (25 mM each dNTP)	None known.
	5X Herculase II Reaction Buffer	None known.
	Herculase II Fusion DNA Polymerase	None known.
	SureSelect XT HS Index Primer A01-H02	None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	End Repair-A Tailing Enzyme Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
	End Repair-A Tailing Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
	T4 DNA Ligase	In a fire or if heated, a pressure increase will occur and the container may burst.
	Ligation Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
	Adaptor Oligo Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
	Forward Primer	In a fire or if heated, a pressure increase will occur and the container may burst.
	100 mM dNTP Mix (25 mM each dNTP)	In a fire or if heated, a pressure increase will occur and the container may burst.
	5X Herculase II Reaction Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
	Herculase II Fusion DNA Polymerase	In a fire or if heated, a pressure increase will occur and the container may burst.
	SureSelect XT HS Index Primer A01-H02	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous combustion products	End Repair-A Tailing Enzyme Mix	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	End Repair-A Tailing Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides
	T4 DNA Ligase	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	Ligation Buffer	Decomposition products may include the following materials: carbon dioxide

SECTION 5: Firefighting measures

Adaptor Oligo Mix Forward Primer 100 mM dNTP Mix (25 mM each dNTP)	carbon monoxide No specific data. No specific data. Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides Decomposition products may include the following materials:
5X Herculase II Reaction Buffer	carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides Decomposition products may include the following materials:
Herculase II Fusion DNA Polymerase	carbon dioxide carbon monoxide No specific data.
SureSelect XT HS Index Primer A01-H02	No specific data.

5.3 Advice for firefighters

Special precautions for fire-fighters

End Repair-A Tailing 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.
End Repair-A Tailing Buffer	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
T4 DNA Ligase	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Ligation Buffer	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Adaptor Oligo Mix	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Forward 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.
100 mM dNTP Mix (25 mM each dNTP)	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
5X Herculase II Reaction Buffer	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Herculase II Fusion DNA Polymerase	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
SureSelect XT HS Index Primer A01-H02	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

End Repair-A Tailing 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.
End Repair-A Tailing	Fire-fighters should wear appropriate protective equipment

SECTION 5: Firefighting measures

Buffer	and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
T4 DNA Ligase	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
Ligation Buffer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
Adaptor 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.
Forward 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.
100 mM dNTP Mix (25 mM each dNTP)	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
5X Herculase II Reaction Buffer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
Herculase II Fusion DNA Polymerase	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
SureSelect XT HS Index Primer A01-H02	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	:	End Repair-A Tailing 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.
		End Repair-A Tailing Buffer	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
		T4 DNA Ligase	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
		Ligation Buffer	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
		Adaptor Oligo Mix	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
		Forward 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.
		100 mM dNTP Mix (25 mM each dNTP)	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
		5X Herculase II Reaction Buffer	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
		Herculase II Fusion DNA Polymerase	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
		SureSelect XT HS Index Primer A01-H02	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
For emergency responders	:	End Repair-A Tailing 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".
		End Repair-A Tailing Buffer	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
		T4 DNA Ligase	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and

SECTION 6: Accidental release measures

	unsuitable materials. See also the information in "For non-emergency personnel".
Ligation Buffer	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Adaptor Oligo Mix	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Forward 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".
100 mM dNTP Mix (25 mM each dNTP)	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
5X Herculase II Reaction Buffer	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Herculase II Fusion DNA Polymerase	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect XT HS Index Primer A01-H02	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

: End Repair-A Tailing 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).
End Repair-A Tailing Buffer	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
T4 DNA Ligase	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Ligation Buffer	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Adaptor Oligo Mix	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Forward 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).
100 mM dNTP Mix (25 mM each dNTP)	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
5X Herculase II Reaction Buffer	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant

SECTION 6: Accidental release measures

	authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Herculase II Fusion DNA Polymerase	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect XT HS Index Primer A01-H02	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	:	End Repair-A Tailing 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.
		End Repair-A Tailing Buffer	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
		T4 DNA Ligase	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
		Ligation Buffer	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
		Adaptor Oligo Mix	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
		Forward 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.
		100 mM dNTP Mix (25 mM each dNTP)	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
		5X Herculase II Reaction Buffer	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
		Herculase II Fusion DNA Polymerase	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
		SureSelect XT HS Index Primer A01-H02	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

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	: End Repair-A Tailing Enzyme Mix	Put on appropriate personal protective equipment (see Section 8).
	End Repair-A Tailing Buffer	Put on appropriate personal protective equipment (see Section 8).
	T4 DNA Ligase	Put on appropriate personal protective equipment (see Section 8).
	Ligation Buffer	Put on appropriate personal protective equipment (see Section 8).
	Adaptor Oligo Mix	Put on appropriate personal protective equipment (see Section 8).
	Forward Primer	Put on appropriate personal protective equipment (see Section 8).
	100 mM dNTP Mix (25 mM each dNTP)	Put on appropriate personal protective equipment (see Section 8).
	5X Herculase II Reaction Buffer	Put on appropriate personal protective equipment (see Section 8).
	Herculase II Fusion DNA Polymerase	Put on appropriate personal protective equipment (see Section 8).
	SureSelect XT HS Index Primer A01-H02	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	: End Repair-A Tailing 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.
	End Repair-A Tailing Buffer	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	T4 DNA Ligase	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	Ligation Buffer	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	Adaptor 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.
	Forward Primer	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

SECTION 7: Handling and storage

100 mM dNTP Mix (25 mM each dNTP)	Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
5X Herculase II Reaction Buffer	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Herculase II Fusion DNA Polymerase	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
SureSelect XT HS Index Primer A01-H02	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Storage

: End Repair-A Tailing Enzyme Mix	Storage temperature: -80°C (-112°F). Store in accordance with local regulations. Shelf life: 1 Year. 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.
End Repair-A Tailing Buffer	Storage temperature: -80°C (-112°F). Store in accordance with local regulations. Shelf life: 1 Year. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
T4 DNA Ligase	Storage temperature: -80°C (-112°F). Store in accordance with local regulations. Shelf life: 1 Year. 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

Ligation Buffer	<p>contamination. See Section 10 for incompatible materials before handling or use.</p> <p>Storage temperature: -80°C (-112°F). Store in accordance with local regulations. Shelf life: 1 Year. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
Adaptor Oligo Mix	<p>Storage temperature: -80°C (-112°F). Store in accordance with local regulations. Shelf life: 1 Year. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
Forward Primer	<p>Storage temperature: -80°C (-112°F). Store in accordance with local regulations. Shelf life: 1 Year. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
100 mM dNTP Mix (25 mM each dNTP)	<p>Storage temperature: -80°C (-112°F). Store in accordance with local regulations. Shelf life: 1 Year. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
5X Herculase II Reaction Buffer	<p>Storage temperature: -80°C (-112°F). Store in accordance with local regulations. Shelf life: 1 Year. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
Herculase II Fusion DNA Polymerase	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have</p>

SECTION 7: Handling and storage

SureSelect XT HS Index Primer A01-H02	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. Storage temperature: -80°C (-112°F). Store in accordance with local regulations. Shelf life: 1 Year. 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.
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7.3 Specific end use(s)

Recommendations	: End Repair-A Tailing Enzyme Mix	Industrial applications, Professional applications.
	End Repair-A Tailing Buffer	Industrial applications, Professional applications.
	T4 DNA Ligase	Industrial applications, Professional applications.
	Ligation Buffer	Industrial applications, Professional applications.
	Adaptor Oligo Mix	Industrial applications, Professional applications.
	Forward Primer	Industrial applications, Professional applications.
	100 mM dNTP Mix (25 mM each dNTP)	Industrial applications, Professional applications.
	5X Herculase II Reaction Buffer	Industrial applications, Professional applications.
	Herculase II Fusion DNA Polymerase	Industrial applications, Professional applications.
	SureSelect XT HS Index Primer A01-H02	Industrial applications, Professional applications.
Industrial sector specific solutions	: End Repair-A Tailing Enzyme Mix	Not applicable.
	End Repair-A Tailing Buffer	Not applicable.
	T4 DNA Ligase	Not applicable.
	Ligation Buffer	Not applicable.
	Adaptor Oligo Mix	Not applicable.
	Forward Primer	Not applicable.
	100 mM dNTP Mix (25 mM each dNTP)	Not applicable.
	5X Herculase II Reaction Buffer	Not applicable.
	Herculase II Fusion DNA Polymerase	Not applicable.
	SureSelect XT HS Index Primer A01-H02	Not applicable.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

SECTION 8: Exposure controls/personal protection

Product/ingredient name	Exposure limit values
End Repair-A Tailing Enzyme Mix Glycerol	EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 10 mg/m ³ 8 hours. Form: Mist
T4 DNA Ligase Glycerol	EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 10 mg/m ³ 8 hours. Form: Mist
Ligation Buffer Glycerol	EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 10 mg/m ³ 8 hours. Form: Mist
Herculase II Fusion DNA Polymerase Glycerol	EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 10 mg/m ³ 8 hours. Form: Mist

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls

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

Individual protection measures

Hygiene measures

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

Eye/face protection

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

Skin protection

Hand protection

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

Body protection

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

SECTION 8: Exposure controls/personal protection

- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	: End Repair-A Tailing Enzyme Mix	Liquid.	
	End Repair-A Tailing Buffer	Liquid.	
	T4 DNA Ligase	Liquid.	
	Ligation Buffer	Liquid.	
	Adaptor Oligo Mix	Liquid.	
	Forward Primer	Liquid.	
	100 mM dNTP Mix (25 mM each dNTP)	Liquid.	
	5X Herculase II Reaction Buffer	Liquid.	
	Herculase II Fusion DNA Polymerase	Liquid.	
	SureSelect XT HS Index Primer A01-H02	Liquid.	
	Colour	: End Repair-A Tailing Enzyme Mix	Not available.
		End Repair-A Tailing Buffer	Not available.
		T4 DNA Ligase	Not available.
Ligation Buffer		Not available.	
Adaptor Oligo Mix		Not available.	
Forward Primer		Not available.	
100 mM dNTP Mix (25 mM each dNTP)		Not available.	
5X Herculase II Reaction Buffer		Not available.	
Herculase II Fusion DNA Polymerase		Not available.	
SureSelect XT HS Index Primer A01-H02		Not available.	
Odour		: End Repair-A Tailing Enzyme Mix	Not available.
		End Repair-A Tailing Buffer	Not available.
		T4 DNA Ligase	Not available.
	Ligation Buffer	Not available.	
	Adaptor Oligo Mix	Not available.	
	Forward Primer	Not available.	
	100 mM dNTP Mix (25 mM each dNTP)	Not available.	
	5X Herculase II Reaction Buffer	Not available.	

SECTION 9: Physical and chemical properties

	Herculase II Fusion	Not available.
	DNA Polymerase	
	SureSelect XT HS	Not available.
	Index Primer A01-H02	
Odour threshold	: End Repair-A Tailing Enzyme Mix	Not available.
	End Repair-A Tailing Buffer	Not available.
	T4 DNA Ligase	Not available.
	Ligation Buffer	Not available.
	Adaptor Oligo Mix	Not available.
	Forward Primer	Not available.
	100 mM dNTP Mix (25 mM each dNTP)	Not available.
	5X Herculase II Reaction Buffer	Not available.
	Herculase II Fusion	Not available.
	DNA Polymerase	
	SureSelect XT HS	Not available.
	Index Primer A01-H02	
pH	: End Repair-A Tailing Enzyme Mix	6.5
	End Repair-A Tailing Buffer	8
	T4 DNA Ligase	7.5
	Ligation Buffer	8
	Adaptor Oligo Mix	7.5
	Forward Primer	7.5
	100 mM dNTP Mix (25 mM each dNTP)	7.5
	5X Herculase II Reaction Buffer	9.5 to 10.5
	Herculase II Fusion	8.2
	DNA Polymerase	
	SureSelect XT HS	7.5
	Index Primer A01-H02	
Melting point/freezing point	: End Repair-A Tailing Enzyme Mix	Not available.
	End Repair-A Tailing Buffer	0°C
	T4 DNA Ligase	Not available.
	Ligation Buffer	Not available.
	Adaptor Oligo Mix	0°C
	Forward Primer	0°C
	100 mM dNTP Mix (25 mM each dNTP)	Not available.
	5X Herculase II Reaction Buffer	Not available.
	Herculase II Fusion	Not available.
	DNA Polymerase	
	SureSelect XT HS	0°C
	Index Primer A01-H02	
Initial boiling point and boiling range	: End Repair-A Tailing Enzyme Mix	Not available.
	End Repair-A Tailing Buffer	100°C
	T4 DNA Ligase	Not available.
	Ligation Buffer	Not available.
	Adaptor Oligo Mix	100°C
	Forward Primer	100°C

SECTION 9: Physical and chemical properties

	100 mM dNTP Mix (25 mM each dNTP)	Not available.
	5X Herculase II Reaction Buffer	Not available.
	Herculase II Fusion DNA Polymerase	Not available.
	SureSelect XT HS Index Primer A01-H02	100°C
Flash point	: End Repair-A Tailing Enzyme Mix	Not available.
	End Repair-A Tailing Buffer	Not available.
	T4 DNA Ligase Ligation Buffer	Not available.
	Adaptor Oligo Mix	Not available.
	Forward Primer	Not available.
	100 mM dNTP Mix (25 mM each dNTP)	Not available.
	5X Herculase II Reaction Buffer	Not available.
	Herculase II Fusion DNA Polymerase	Not available.
	SureSelect XT HS Index Primer A01-H02	Not available.
Evaporation rate	: End Repair-A Tailing Enzyme Mix	Not available.
	End Repair-A Tailing Buffer	Not available.
	T4 DNA Ligase Ligation Buffer	Not available.
	Adaptor Oligo Mix	Not available.
	Forward Primer	Not available.
	100 mM dNTP Mix (25 mM each dNTP)	Not available.
	5X Herculase II Reaction Buffer	Not available.
	Herculase II Fusion DNA Polymerase	Not available.
	SureSelect XT HS Index Primer A01-H02	Not available.
Flammability (solid, gas)	: End Repair-A Tailing Enzyme Mix	Not applicable.
	End Repair-A Tailing Buffer	Not applicable.
	T4 DNA Ligase Ligation Buffer	Not applicable.
	Adaptor Oligo Mix	Not applicable.
	Forward Primer	Not applicable.
	100 mM dNTP Mix (25 mM each dNTP)	Not applicable.
	5X Herculase II Reaction Buffer	Not applicable.
	Herculase II Fusion DNA Polymerase	Not applicable.
	SureSelect XT HS Index Primer A01-H02	Not applicable.

SECTION 9: Physical and chemical properties

Upper/lower flammability or explosive limits : End Repair-A Tailing Enzyme Mix Not available.
End Repair-A Tailing Buffer Not available.
T4 DNA Ligase Not available.
Ligation Buffer Not available.
Adaptor Oligo Mix Not available.
Forward Primer Not available.
100 mM dNTP Mix (25 mM each dNTP) Not available.
5X Herculase II Reaction Buffer Not available.
Herculase II Fusion DNA Polymerase Not available.
SureSelect XT HS Index Primer A01-H02 Not available.

Vapour pressure : End Repair-A Tailing Enzyme Mix Not available.
End Repair-A Tailing Buffer Not available.
T4 DNA Ligase Not available.
Ligation Buffer Not available.
Adaptor Oligo Mix Not available.
Forward Primer Not available.
100 mM dNTP Mix (25 mM each dNTP) Not available.
5X Herculase II Reaction Buffer Not available.
Herculase II Fusion DNA Polymerase Not available.
SureSelect XT HS Index Primer A01-H02 Not available.

Vapour density : End Repair-A Tailing Enzyme Mix Not available.
End Repair-A Tailing Buffer Not available.
T4 DNA Ligase Not available.
Ligation Buffer Not available.
Adaptor Oligo Mix Not available.
Forward Primer Not available.
100 mM dNTP Mix (25 mM each dNTP) Not available.
5X Herculase II Reaction Buffer Not available.
Herculase II Fusion DNA Polymerase Not available.
SureSelect XT HS Index Primer A01-H02 Not available.

Relative density : End Repair-A Tailing Enzyme Mix Not available.
End Repair-A Tailing Buffer Not available.
T4 DNA Ligase Not available.
Ligation Buffer Not available.
Adaptor Oligo Mix Not available.
Forward Primer Not available.
100 mM dNTP Mix (25 mM each dNTP) Not available.
5X Herculase II Reaction Buffer Not available.

SECTION 9: Physical and chemical properties

	Herculase II Fusion DNA Polymerase	Not available.
	SureSelect XT HS Index Primer A01-H02	Not available.
Solubility(ies)	: End Repair-A Tailing Enzyme Mix	Easily soluble in the following materials: cold water and hot water.
	End Repair-A Tailing Buffer	Easily soluble in the following materials: cold water and hot water.
	T4 DNA Ligase	Easily soluble in the following materials: cold water and hot water.
	Ligation Buffer	Soluble in the following materials: cold water and hot water.
	Adaptor Oligo Mix	Easily soluble in the following materials: cold water and hot water.
	Forward Primer	Easily soluble in the following materials: cold water and hot water.
	100 mM dNTP Mix (25 mM each dNTP)	Easily soluble in the following materials: cold water and hot water.
	5X Herculase II Reaction Buffer	Easily soluble in the following materials: cold water and hot water.
	Herculase II Fusion DNA Polymerase	Soluble in the following materials: cold water and hot water.
	SureSelect XT HS Index Primer A01-H02	Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	: End Repair-A Tailing Enzyme Mix	Not available.
	End Repair-A Tailing Buffer	Not available.
	T4 DNA Ligase	Not available.
	Ligation Buffer	Not available.
	Adaptor Oligo Mix	Not available.
	Forward Primer	Not available.
	100 mM dNTP Mix (25 mM each dNTP)	Not available.
	5X Herculase II Reaction Buffer	Not available.
	Herculase II Fusion DNA Polymerase	Not available.
	SureSelect XT HS Index Primer A01-H02	Not available.
Auto-ignition temperature	: End Repair-A Tailing Enzyme Mix	Not available.
	End Repair-A Tailing Buffer	Not available.
	T4 DNA Ligase	Not available.
	Ligation Buffer	Not available.
	Adaptor Oligo Mix	Not available.
	Forward Primer	Not available.
	100 mM dNTP Mix (25 mM each dNTP)	Not available.
	5X Herculase II Reaction Buffer	Not available.
	Herculase II Fusion DNA Polymerase	Not available.
	SureSelect XT HS Index Primer A01-H02	Not available.

SECTION 9: Physical and chemical properties

Decomposition temperature	: End Repair-A Tailing Enzyme Mix	Not available.	
	End Repair-A Tailing Buffer	Not available.	
	T4 DNA Ligase	Not available.	
	Ligation Buffer	Not available.	
	Adaptor Oligo Mix	Not available.	
	Forward Primer	Not available.	
	100 mM dNTP Mix (25 mM each dNTP)	Not available.	
	5X Herculase II Reaction Buffer	Not available.	
	Herculase II Fusion	Not available.	
	DNA Polymerase	Not available.	
	SureSelect XT HS	Not available.	
	Index Primer A01-H02	Not available.	
Viscosity	: End Repair-A Tailing Enzyme Mix	Not available.	
	End Repair-A Tailing Buffer	Not available.	
	T4 DNA Ligase	Not available.	
	Ligation Buffer	Not available.	
	Adaptor Oligo Mix	Not available.	
	Forward Primer	Not available.	
	100 mM dNTP Mix (25 mM each dNTP)	Not available.	
	5X Herculase II Reaction Buffer	Not available.	
	Herculase II Fusion	Not available.	
	DNA Polymerase	Not available.	
	SureSelect XT HS	Not available.	
	Index Primer A01-H02	Not available.	
Explosive properties	: End Repair-A Tailing Enzyme Mix	Not available.	
	End Repair-A Tailing Buffer	Not available.	
	T4 DNA Ligase	Not available.	
	Ligation Buffer	Not available.	
	Adaptor Oligo Mix	Not available.	
	Forward Primer	Not available.	
	100 mM dNTP Mix (25 mM each dNTP)	Not available.	
	5X Herculase II Reaction Buffer	Not available.	
	Herculase II Fusion	Not available.	
	DNA Polymerase	Not available.	
	SureSelect XT HS	Not available.	
	Index Primer A01-H02	Not available.	
Oxidising properties	: End Repair-A Tailing Enzyme Mix	Not available.	
	End Repair-A Tailing Buffer	Not available.	
	T4 DNA Ligase	Not available.	
	Ligation Buffer	Not available.	
	Adaptor Oligo Mix	Not available.	
	Forward Primer	Not available.	
	100 mM dNTP Mix (25 mM each dNTP)	Not available.	
	5X Herculase II Reaction Buffer	Not available.	

SECTION 9: Physical and chemical properties

Herculase II Fusion DNA Polymerase	Not available.
SureSelect XT HS Index Primer A01-H02	Not available.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	:	End Repair-A Tailing Enzyme Mix	No specific test data related to reactivity available for this product or its ingredients.
		End Repair-A Tailing Buffer	No specific test data related to reactivity available for this product or its ingredients.
		T4 DNA Ligase	No specific test data related to reactivity available for this product or its ingredients.
		Ligation Buffer	No specific test data related to reactivity available for this product or its ingredients.
		Adaptor Oligo Mix	No specific test data related to reactivity available for this product or its ingredients.
		Forward Primer	No specific test data related to reactivity available for this product or its ingredients.
		100 mM dNTP Mix (25 mM each dNTP)	No specific test data related to reactivity available for this product or its ingredients.
		5X Herculase II Reaction Buffer	No specific test data related to reactivity available for this product or its ingredients.
		Herculase II Fusion DNA Polymerase	No specific test data related to reactivity available for this product or its ingredients.
		SureSelect XT HS Index Primer A01-H02	No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability	:	End Repair-A Tailing Enzyme Mix	The product is stable.
		End Repair-A Tailing Buffer	The product is stable.
		T4 DNA Ligase	The product is stable.
		Ligation Buffer	The product is stable.
		Adaptor Oligo Mix	The product is stable.
		Forward Primer	The product is stable.
		100 mM dNTP Mix (25 mM each dNTP)	The product is stable.
		5X Herculase II Reaction Buffer	The product is stable.
		Herculase II Fusion DNA Polymerase	The product is stable.
		SureSelect XT HS Index Primer A01-H02	The product is stable.

10.3 Possibility of hazardous reactions	:	End Repair-A Tailing Enzyme Mix	Under normal conditions of storage and use, hazardous reactions will not occur.
		End Repair-A Tailing Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
		T4 DNA Ligase	Under normal conditions of storage and use, hazardous reactions will not occur.
		Ligation Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
		Adaptor Oligo Mix	Under normal conditions of storage and use, hazardous reactions will not occur.
		Forward Primer	Under normal conditions of storage and use, hazardous reactions will not occur.
		100 mM dNTP Mix (25 mM each dNTP)	Under normal conditions of storage and use, hazardous reactions will not occur.

SECTION 10: Stability and reactivity

mM each dNTP)	reactions will not occur.
5X Herculase II Reaction Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
Herculase II Fusion DNA Polymerase	Under normal conditions of storage and use, hazardous reactions will not occur.
SureSelect XT HS Index Primer A01-H02	Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid	:	End Repair-A Tailing Enzyme Mix	No specific data.
		End Repair-A Tailing Buffer	No specific data.
		T4 DNA Ligase	No specific data.
		Ligation Buffer	No specific data.
		Adaptor Oligo Mix	No specific data.
		Forward Primer	No specific data.
		100 mM dNTP Mix (25 mM each dNTP)	No specific data.
		5X Herculase II Reaction Buffer	No specific data.
		Herculase II Fusion DNA Polymerase	No specific data.
		SureSelect XT HS Index Primer A01-H02	No specific data.

10.5 Incompatible materials	:	End Repair-A Tailing Enzyme Mix	May react or be incompatible with oxidising materials.
		End Repair-A Tailing Buffer	May react or be incompatible with oxidising materials.
		T4 DNA Ligase	May react or be incompatible with oxidising materials.
		Ligation Buffer	May react or be incompatible with oxidising materials.
		Adaptor Oligo Mix	May react or be incompatible with oxidising materials.
		Forward Primer	May react or be incompatible with oxidising materials.
		100 mM dNTP Mix (25 mM each dNTP)	May react or be incompatible with oxidising materials.
		5X Herculase II Reaction Buffer	May react or be incompatible with oxidising materials.
		Herculase II Fusion DNA Polymerase	May react or be incompatible with oxidising materials.
		SureSelect XT HS Index Primer A01-H02	May react or be incompatible with oxidising materials.

10.6 Hazardous decomposition products	:	End Repair-A Tailing Enzyme Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		End Repair-A Tailing Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		T4 DNA Ligase	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		Ligation Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		Adaptor Oligo Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		Forward Primer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		100 mM dNTP Mix (25 mM each dNTP)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		5X Herculase II Reaction Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		Herculase II Fusion DNA Polymerase	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		SureSelect XT HS Index	Under normal conditions of storage and use, hazardous

Early Access SureSelect XT HS Library Prep Kit, ILM 96 Reactions, Part Number 5500-0139

SECTION 10: Stability and reactivity

Primer A01-H02 decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
5X Herculase II Reaction Buffer				
Trometamol	LD50 Dermal	Rat	>5000 mg/kg	-
	LD50 Oral	Rat	5000 mg/kg	-
Ammonium sulphate	LD50 Oral	Rat	2840 mg/kg	-
Hexadecan-1-ol, ethoxylated	LD50 Oral	Rat	2500 mg/kg	-

Irritation/Corrosion

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

Sensitiser

Conclusion/Summary : Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Information on likely routes of exposure

End Repair-A Tailing Enzyme Mix	Routes of entry anticipated: Oral, Dermal, Inhalation.
End Repair-A Tailing Buffer	Routes of entry anticipated: Oral, Dermal, Inhalation.
T4 DNA Ligase	Routes of entry anticipated: Oral, Dermal, Inhalation.
Ligation Buffer	Routes of entry anticipated: Oral, Dermal, Inhalation.
Adaptor Oligo Mix	Not available.
Forward Primer	Not available.
100 mM dNTP Mix (25 mM each dNTP)	Not available.
5X Herculase II Reaction Buffer	Routes of entry anticipated: Oral, Dermal, Inhalation.
Herculase II Fusion DNA Polymerase	Routes of entry anticipated: Oral, Dermal, Inhalation.
SureSelect XT HS Index Primer A01-H02	Not available.

Potential acute health effects

Inhalation	End Repair-A Tailing Enzyme Mix	No known significant effects or critical hazards.
	End Repair-A Tailing Buffer	No known significant effects or critical hazards.
	T4 DNA Ligase	No known significant effects or critical hazards.
	Ligation Buffer	No known significant effects or critical hazards.
	Adaptor Oligo Mix	No known significant effects or critical hazards.
	Forward Primer	No known significant effects or critical hazards.

SECTION 11: Toxicological information

	100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
	5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
	Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
	SureSelect XT HS Index Primer A01-H02	No known significant effects or critical hazards.
Ingestion	: End Repair-A Tailing Enzyme Mix	No known significant effects or critical hazards.
	End Repair-A Tailing Buffer	No known significant effects or critical hazards.
	T4 DNA Ligase	No known significant effects or critical hazards.
	Ligation Buffer	No known significant effects or critical hazards.
	Adaptor Oligo Mix	No known significant effects or critical hazards.
	Forward Primer	No known significant effects or critical hazards.
	100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
	5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
	Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
	SureSelect XT HS Index Primer A01-H02	No known significant effects or critical hazards.
Skin contact	: End Repair-A Tailing Enzyme Mix	No known significant effects or critical hazards.
	End Repair-A Tailing Buffer	No known significant effects or critical hazards.
	T4 DNA Ligase	No known significant effects or critical hazards.
	Ligation Buffer	No known significant effects or critical hazards.
	Adaptor Oligo Mix	No known significant effects or critical hazards.
	Forward Primer	No known significant effects or critical hazards.
	100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
	5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
	Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
	SureSelect XT HS Index Primer A01-H02	No known significant effects or critical hazards.
Eye contact	: End Repair-A Tailing Enzyme Mix	No known significant effects or critical hazards.
	End Repair-A Tailing Buffer	No known significant effects or critical hazards.
	T4 DNA Ligase	No known significant effects or critical hazards.
	Ligation Buffer	No known significant effects or critical hazards.
	Adaptor Oligo Mix	No known significant effects or critical hazards.
	Forward Primer	No known significant effects or critical hazards.
	100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
	5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
	Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
	SureSelect XT HS Index Primer A01-H02	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

SECTION 11: Toxicological information

Inhalation	:	End Repair-A Tailing Enzyme Mix	No specific data.	
		End Repair-A Tailing Buffer	No specific data.	
		T4 DNA Ligase	No specific data.	
		Ligation Buffer	No specific data.	
		Adaptor Oligo Mix	No specific data.	
		Forward Primer	No specific data.	
		100 mM dNTP Mix (25 mM each dNTP)	No specific data.	
		5X Herculase II Reaction Buffer	No specific data.	
		Herculase II Fusion DNA Polymerase	No specific data.	
		SureSelect XT HS Index Primer A01-H02	No specific data.	
	Ingestion	:	End Repair-A Tailing Enzyme Mix	No specific data.
			End Repair-A Tailing Buffer	No specific data.
			T4 DNA Ligase	No specific data.
		Ligation Buffer	No specific data.	
		Adaptor Oligo Mix	No specific data.	
		Forward Primer	No specific data.	
		100 mM dNTP Mix (25 mM each dNTP)	No specific data.	
		5X Herculase II Reaction Buffer	No specific data.	
		Herculase II Fusion DNA Polymerase	No specific data.	
		SureSelect XT HS Index Primer A01-H02	No specific data.	
Skin contact		:	End Repair-A Tailing Enzyme Mix	No specific data.
			End Repair-A Tailing Buffer	No specific data.
			T4 DNA Ligase	No specific data.
		Ligation Buffer	No specific data.	
		Adaptor Oligo Mix	No specific data.	
		Forward Primer	No specific data.	
		100 mM dNTP Mix (25 mM each dNTP)	No specific data.	
		5X Herculase II Reaction Buffer	No specific data.	
		Herculase II Fusion DNA Polymerase	No specific data.	
		SureSelect XT HS Index Primer A01-H02	No specific data.	
	Eye contact	:	End Repair-A Tailing Enzyme Mix	No specific data.
			End Repair-A Tailing Buffer	No specific data.
			T4 DNA Ligase	No specific data.
		Ligation Buffer	No specific data.	
		Adaptor Oligo Mix	No specific data.	
		Forward Primer	No specific data.	
		100 mM dNTP Mix (25 mM each dNTP)	No specific data.	
		5X Herculase II Reaction Buffer	No specific data.	
		Herculase II Fusion DNA	No specific data.	

SECTION 11: Toxicological information

Polymerase
SureSelect XT HS Index No specific data.
Primer A01-H02

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

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General	:	End Repair-A Tailing Enzyme Mix	No known significant effects or critical hazards.
		End Repair-A Tailing Buffer	No known significant effects or critical hazards.
		T4 DNA Ligase	No known significant effects or critical hazards.
		Ligation Buffer	No known significant effects or critical hazards.
		Adaptor Oligo Mix	No known significant effects or critical hazards.
		Forward Primer	No known significant effects or critical hazards.
		100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
		5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
		Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
		SureSelect XT HS Index Primer A01-H02	No known significant effects or critical hazards.
Carcinogenicity	:	End Repair-A Tailing Enzyme Mix	No known significant effects or critical hazards.
		End Repair-A Tailing Buffer	No known significant effects or critical hazards.
		T4 DNA Ligase	No known significant effects or critical hazards.
		Ligation Buffer	No known significant effects or critical hazards.
		Adaptor Oligo Mix	No known significant effects or critical hazards.
		Forward Primer	No known significant effects or critical hazards.
		100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
		5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
		Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
		SureSelect XT HS Index Primer A01-H02	No known significant effects or critical hazards.
Mutagenicity	:	End Repair-A Tailing Enzyme Mix	No known significant effects or critical hazards.
		End Repair-A Tailing Buffer	No known significant effects or critical hazards.
		T4 DNA Ligase	No known significant effects or critical hazards.
		Ligation Buffer	No known significant effects or critical hazards.
		Adaptor Oligo Mix	No known significant effects or critical hazards.
		Forward Primer	No known significant effects or critical hazards.
		100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
		5X Herculase II Reaction	No known significant effects or critical hazards.

SECTION 11: Toxicological information

	Buffer	
	Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
	SureSelect XT HS Index Primer A01-H02	No known significant effects or critical hazards.
Teratogenicity	: End Repair-A Tailing Enzyme Mix	No known significant effects or critical hazards.
	End Repair-A Tailing Buffer	No known significant effects or critical hazards.
	T4 DNA Ligase	No known significant effects or critical hazards.
	Ligation Buffer	No known significant effects or critical hazards.
	Adaptor Oligo Mix	No known significant effects or critical hazards.
	Forward Primer	No known significant effects or critical hazards.
	100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
	5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
	Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
	SureSelect XT HS Index Primer A01-H02	No known significant effects or critical hazards.
Developmental effects	: End Repair-A Tailing Enzyme Mix	No known significant effects or critical hazards.
	End Repair-A Tailing Buffer	No known significant effects or critical hazards.
	T4 DNA Ligase	No known significant effects or critical hazards.
	Ligation Buffer	No known significant effects or critical hazards.
	Adaptor Oligo Mix	No known significant effects or critical hazards.
	Forward Primer	No known significant effects or critical hazards.
	100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
	5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
	Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
	SureSelect XT HS Index Primer A01-H02	No known significant effects or critical hazards.
Fertility effects	: End Repair-A Tailing Enzyme Mix	No known significant effects or critical hazards.
	End Repair-A Tailing Buffer	No known significant effects or critical hazards.
	T4 DNA Ligase	No known significant effects or critical hazards.
	Ligation Buffer	No known significant effects or critical hazards.
	Adaptor Oligo Mix	No known significant effects or critical hazards.
	Forward Primer	No known significant effects or critical hazards.
	100 mM dNTP Mix (25 mM each dNTP)	No known significant effects or critical hazards.
	5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
	Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
	SureSelect XT HS Index Primer A01-H02	No known significant effects or critical hazards.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
5X Herculase II Reaction Buffer			
Trometamol	Acute EC50 >980 mg/l Fresh water	Daphnia	48 hours
	Acute NOEC 520 mg/l Fresh water	Daphnia	48 hours
Ammonium sulphate	Acute LC50 2.6 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Young	48 hours
	Acute LC50 14000 µg/l Fresh water	Daphnia - Daphnia magna - Young	48 hours
	Acute LC50 68 µg/l Fresh water	Fish - Oncorhynchus gorbuscha - Alevin	96 hours
	Chronic NOEC 7.5 mg/l Marine water	Algae - Phaeodactylum tricornutum - Exponential growth phase	96 hours
Hexadecan-1-ol, ethoxylated	Chronic NOEC 143 µg/l Marine water	Fish - Salmo salar - Post-smolt	5 weeks
	Acute LC50 330000 to 1000000 µg/l Marine water	Crustaceans - Crangon crangon - Adult	48 hours

12.2 Persistence and degradability

Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
5X Herculase II Reaction Buffer			
Ammonium sulphate	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
5X Herculase II Reaction Buffer			
Trometamol	-1.56	-	low
Ammonium sulphate	-5.1	-	low

12.4 Mobility in soil

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

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Early Access SureSelect XT HS Library Prep Kit, ILM 96 Reactions, Part Number 5500-0139

SECTION 13: Disposal considerations

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

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

Packaging

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

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

SECTION 14: Transport information

ADR/RID / IMDG / IATA : Not regulated.

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

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code : Not available.

SECTION 15: Regulatory information

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

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

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	End Repair-A Tailing Enzyme Mix	Not applicable.
	End Repair-A Tailing Buffer	Not applicable.
	T4 DNA Ligase	Not applicable.
	Ligation Buffer	Not applicable.
	Adaptor Oligo Mix	Not applicable.
	Forward Primer	Not applicable.
	100 mM dNTP Mix (25 mM each dNTP)	Not applicable.
	5X Herculase II Reaction Buffer	Not applicable.
	Herculase II Fusion DNA Polymerase	Not applicable.
	SureSelect XT HS Index Primer A01-H02	Not applicable.

Other EU regulations

Ozone depleting substances (1005/2009/EU)

Not listed.

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

SECTION 15: Regulatory information

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

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

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

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

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

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms : ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number

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

Classification	Justification
Not classified.	

Full text of abbreviated H statements

Date of issue/Date of revision : 27/09/2018

Early Access SureSelect XT HS Library Prep Kit, ILM 96 Reactions, Part Number 5500-0139

SECTION 16: Other information

End Repair-A Tailing Buffer

H315
H319
H335

Causes skin irritation.
Causes serious eye irritation.
May cause respiratory irritation.

5X Herculase II Reaction Buffer

H315
H319
H335
H400
H412

Causes skin irritation.
Causes serious eye irritation.
May cause respiratory irritation.
Very toxic to aquatic life.
Harmful to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

End Repair-A Tailing Buffer

Eye Irrit. 2, H319
Skin Irrit. 2, H315
STOT SE 3, H335

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
SKIN CORROSION/IRRITATION - Category 2
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE
(Respiratory tract irritation) - Category 3

5X Herculase II Reaction Buffer

Aquatic Acute 1, H400
Aquatic Chronic 3, H412
Eye Irrit. 2, H319
Skin Irrit. 2, H315
STOT SE 3, H335

SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
SKIN CORROSION/IRRITATION - Category 2
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE
(Respiratory tract irritation) - Category 3

Date of issue/ Date of revision : 27/09/2018

Date of previous issue : 30/04/2018

Version : 2.01

Notice to reader

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