

SAFETY DATA SHEET



SureSelect XT HS Reagent Kit with indexes 17-32, 16 reactions, Part Number G9702B

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

1.1 Product identifier

Product name	: SureSelect XT HS Reagent Kit with indexes 17-32, 16 reactions, Part Number G9702B
Part no. (chemical kit)	: G9702B
Part no.	: <u>SureSelect XT HS</u> <u>5500-0138</u> <u>Library Preparation Kit</u> <u>for ILM (Pre PCR), 16</u> <u>Rxn</u> End Repair-A Tailing 5190-6412 Enzyme Mix End Repair-A Tailing 5190-6413 Buffer T4 DNA Ligase 5190-6414 Ligation Buffer 5190-6415 Adaptor Oligo Mix 5190-6416 Forward Primer 5190-6417 <u>5500-0138/5190-9684</u> dNTP Mix 5190-6418 Herculase II Fusion DNA 5190-7742 Polymerase 5X Herculase II Reaction 600675-52 Buffer <u>SureSelect XT HS</u> <u>5190-9685</u> <u>Target Enrichment Kit,</u> <u>ILM Hyb Module, Box 1</u> <u>(Post PCR), 16 Rxn</u> SureSelect Binding 5190-4399 Buffer SureSelect Wash Buffer 5190-4400 1 SureSelect Wash Buffer 5190-4401 2 <u>SureSelect XT HS</u> <u>5190-9684</u> <u>Target Enrichment Kit,</u> <u>ILM Hyb Module, Box 2</u> <u>(Post PCR), 16 Rxn</u> SureSelect XT HS 5190-9683 Blocker Mix SureSelect Fast 5190-7327 Hybridization Buffer SureSelect RNase Block 5190-4383 SureSelect Post- 5190-9730 Capture Primer Mix <u>SureSelect XT HS Index</u> <u>5500-0142</u> <u>Primers 17-32 for ILM</u> <u>(Pre PCR)</u> SureSelect XT HS Index Various* Primer A03-H04

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

Material uses	: <input checked="" type="checkbox"/> Analytical reagent. For Research Use Only. Not for use in diagnostic procedures.
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End Repair-A Tailing Enzyme Mix	0.064 ml (16 reactions)
End Repair-A Tailing Buffer	0.256 ml (16 reactions)
T4 DNA Ligase	0.032 ml (16 reactions)
Ligation Buffer	0.368 ml (16 reactions)
Adaptor Oligo Mix	0.08 ml (16 reactions)
Forward Primer	0.032 ml (16 reactions)
dNTP Mix	0.008 ml (16 reactions)
Herculase II Fusion DNA Polymerase	0.016 ml (32 reactions)
5X Herculase II Reaction Buffer	1.5 ml
SureSelect Binding Buffer	13.2 ml
SureSelect Wash Buffer 1	8 ml
SureSelect Wash Buffer 2	24 ml
SureSelect XT HS Blocker Mix	0.08 ml (16 reactions)
SureSelect Fast Hybridization Buffer	0.45 ml
SureSelect RNase Block	0.016 ml
SureSelect Post- Capture Primer Mix	0.016 ml (16 reactions)
SureSelect XT HS Index Primer A03-H04	16 x 0.01 ml (16 reactions)

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

Note * : A kit containing Agilent Part Number: 5500-0138, 5190-9684, 5190-9685, 5500-0142
*SureSelect XT HS Index Primer A03-H04: 5190-9740, 5190-9741, 5190-9742, 5190-9743, 5190-9744, 5190-9745, 5190-9746, 5190-9747, 5190-9748, 5190-9749, 5190-9750, 5190-9751, 5190-9752, 5190-9753, 5190-9754, 5190-9755

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
		Herculase II Fusion DNA Polymerase	Mixture
		5X Herculase II Reaction Buffer	Mixture
		SureSelect Binding Buffer	Mixture
		SureSelect Wash Buffer 1	Mixture

Date of issue/Date of revision : 15/01/2019

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SureSelect Wash Buffer 2	Mixture
SureSelect XT HS and XT Low Input Blocker Mix	Mixture
SureSelect Fast Hybridization Buffer	Mixture
SureSelect RNase Block	Mixture
SureSelect Post-Capture Primer Mix	Mixture
SureSelect XT HS Index Primer A03-H04	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 acute inhalation toxicity: 30 - 60%
	: End Repair-A Tailing Buffer	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10%
	: T4 DNA Ligase	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%
	: Ligation Buffer	Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 1 - 10%
	: dNTP Mix	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%
		Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10%
		Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%
		Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 1 - 10%
		Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%
		Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10%
Ingredients of unknown ecotoxicity	: Herculase II Fusion DNA Polymerase	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10%
	: 5X Herculase II Reaction Buffer	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%
	: SureSelect Binding Buffer	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%
	: SureSelect Fast Hybridization Buffer	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10%
		Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%
		Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 1 - 10%
	: SureSelect RNase Block	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%
	: End Repair-A Tailing Buffer	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 1.7%
	: dNTP Mix	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 5.3%
	: SureSelect Fast Hybridization Buffer	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 1.6%

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) Herculase II Fusion DNA Polymerase 5X Herculase II Reaction Buffer SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer 2 SureSelect XT HS and XT Low Input Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect Post-Capture Primer Mix SureSelect XT HS Index Primer A03-H04 	<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. No signal word. No signal word. No signal word. No signal word. No signal word. No signal word. No signal word. No signal word. No signal word. No signal word.
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) Herculase II Fusion DNA Polymerase 5X Herculase II Reaction Buffer SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer 2 SureSelect XT HS and XT Low Input Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect Post-Capture Primer Mix SureSelect XT HS Index Primer A03-H04 	<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. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Precautionary statements

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Prevention	:	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.
		Herculase II Fusion DNA Polymerase	Not applicable.
		5X Herculase II Reaction Buffer	Not applicable.
		SureSelect Binding Buffer	Not applicable.
		SureSelect Wash Buffer 1	Not applicable.
		SureSelect Wash Buffer 2	Not applicable.
		SureSelect XT HS and XT Low Input Blocker Mix	Not applicable.
		SureSelect Fast Hybridization Buffer	Not applicable.
		SureSelect RNase Block	Not applicable.
		SureSelect Post-Capture Primer Mix	Not applicable.
		SureSelect XT HS Index Primer A03-H04	Not applicable.
Response	:	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.
		Herculase II Fusion DNA Polymerase	Not applicable.
		5X Herculase II Reaction Buffer	Not applicable.
		SureSelect Binding Buffer	Not applicable.
		SureSelect Wash Buffer 1	Not applicable.
		SureSelect Wash Buffer 2	Not applicable.
		SureSelect XT HS and XT Low Input Blocker Mix	Not applicable.
		SureSelect Fast Hybridization Buffer	Not applicable.
		SureSelect RNase Block	Not applicable.
		SureSelect Post-Capture Primer Mix	Not applicable.
		SureSelect XT HS Index Primer A03-H04	Not applicable.

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Storage	:	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.	
		Herculase II Fusion DNA Polymerase	Not applicable.	
		5X Herculase II Reaction Buffer	Not applicable.	
		SureSelect Binding Buffer	Not applicable.	
		SureSelect Wash Buffer 1	Not applicable.	
		SureSelect Wash Buffer 2	Not applicable.	
		SureSelect XT HS and XT Low Input Blocker Mix	Not applicable.	
		SureSelect Fast Hybridization Buffer	Not applicable.	
		SureSelect RNase Block	Not applicable.	
		SureSelect Post-Capture Primer Mix	Not applicable.	
		SureSelect XT HS Index Primer A03-H04	Not applicable.	
	Disposal	:	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.	
		Herculase II Fusion DNA Polymerase	Not applicable.	
		5X Herculase II Reaction Buffer	Not applicable.	
		SureSelect Binding Buffer	Not applicable.	
		SureSelect Wash Buffer 1	Not applicable.	
		SureSelect Wash Buffer 2	Not applicable.	
		SureSelect XT HS and XT Low Input Blocker Mix	Not applicable.	
		SureSelect Fast Hybridization Buffer	Not applicable.	
		SureSelect RNase Block	Not applicable.	
		SureSelect Post-Capture Primer Mix	Not applicable.	
		SureSelect XT HS Index Primer A03-H04	Not applicable.	

SECTION 2: Hazards identification

Hazardous ingredients	:	End Repair-A Tailing Buffer	Not applicable.
		5X Herculase II Reaction Buffer	Not applicable.
		SureSelect Binding Buffer	Not applicable.
		SureSelect Fast Hybridization Buffer	Not applicable.
Supplemental label elements	:	End Repair-A Tailing Enzyme Mix	Not applicable.
		End Repair-A Tailing Buffer	Safety data sheet available on request.
		T4 DNA Ligase Ligation Buffer	Not applicable.
		Adaptor Oligo Mix	Not applicable.
		Forward Primer	Not applicable.
		dNTP Mix	Not applicable.
		Herculase II Fusion DNA Polymerase	Not applicable.
		5X Herculase II Reaction Buffer	Safety data sheet available on request.
		SureSelect Binding Buffer	Safety data sheet available on request.
		SureSelect Wash Buffer 1	Not applicable.
		SureSelect Wash Buffer 2	Not applicable.
		SureSelect XT HS Blocker Mix	Not applicable.
		SureSelect Fast Hybridization Buffer	Safety data sheet available on request.
		SureSelect RNase Block	Not applicable.
		SureSelect Post-Capture Primer Mix	Not applicable.
		SureSelect XT HS Index Primer A03-H04	Not applicable.
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 Ligation Buffer	Not applicable.
		Adaptor Oligo Mix	Not applicable.
		Forward Primer	Not applicable.
		dNTP Mix	Not applicable.
		Herculase II Fusion DNA Polymerase	Not applicable.
		5X Herculase II Reaction Buffer	Not applicable.
		SureSelect Binding Buffer	Not applicable.
		SureSelect Wash Buffer 1	Not applicable.
		SureSelect Wash Buffer 2	Not applicable.
		SureSelect XT HS Blocker Mix	Not applicable.
		SureSelect Fast Hybridization Buffer	Not applicable.
		SureSelect RNase Block	Not applicable.
		SureSelect Post-	Not applicable.

SECTION 2: Hazards identification

Capture Primer Mix
 SureSelect XT HS Index Not applicable.
 Primer A03-H04

Special packaging requirements

Tactile warning of danger :

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.
dNTP Mix	Not applicable.
Herculase II Fusion DNA Polymerase	Not applicable.
5X Herculase II Reaction Buffer	Not applicable.
SureSelect Binding Buffer	Not applicable.
SureSelect Wash Buffer 1	Not applicable.
SureSelect Wash Buffer 2	Not applicable.
SureSelect XT HS Blocker Mix	Not applicable.
SureSelect Fast Hybridization Buffer	Not applicable.
SureSelect RNase Block	Not applicable.
SureSelect Post-Capture Primer Mix	Not applicable.
SureSelect XT HS Index Primer A03-H04	Not applicable.

2.3 Other hazards

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

End Repair-A Tailing Enzyme Mix	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
End Repair-A Tailing Buffer	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
T4 DNA Ligase	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Ligation Buffer	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Adaptor Oligo Mix	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Forward Primer	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
dNTP Mix	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Herculase II Fusion DNA Polymerase	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
5X Herculase II Reaction Buffer	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
SureSelect Binding Buffer	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
SureSelect Wash Buffer 1	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
SureSelect Wash Buffer 2	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
SureSelect XT HS Blocker Mix	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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SECTION 2: Hazards identification

SureSelect Fast Hybridization Buffer	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
SureSelect RNase Block	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
SureSelect Post-Capture Primer Mix	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
SureSelect XT HS Index Primer A03-H04	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do not result in classification

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	None known.
Forward Primer	None known.
dNTP Mix	None known.
Herculase II Fusion DNA Polymerase	None known.
5X Herculase II Reaction Buffer	None known.
SureSelect Binding Buffer	None known.
SureSelect Wash Buffer 1	None known.
SureSelect Wash Buffer 2	None known.
SureSelect XT HS Blocker Mix	None known.
SureSelect Fast Hybridization Buffer	None known.
SureSelect RNase Block	None known.
SureSelect Post-Capture Primer Mix	None known.
SureSelect XT HS Index Primer A03-H04	None known.

SECTION 3: Composition/information on ingredients

3.1 Substances

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
Herculase II Fusion DNA Polymerase	Mixture
5X Herculase II Reaction Buffer	Mixture
SureSelect Binding Buffer	Mixture
SureSelect Wash Buffer 1	Mixture
SureSelect Wash Buffer 2	Mixture
SureSelect XT HS and XT Low Input Blocker Mix	Mixture
SureSelect Fast Hybridization Buffer	Mixture
SureSelect RNase Block	Mixture
SureSelect Post-Capture Primer Mix	Mixture
SureSelect XT HS Index Primer	Mixture

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SECTION 3: Composition/information on ingredients

A03-H04

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]
Herculase II Fusion DNA Polymerase Glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	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]
SureSelect Binding Buffer Sodium chloride	EC: 231-598-3 CAS: 7647-14-5	<10	Eye Irrit. 2, H319	[1]
SureSelect Fast Hybridization 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]
SureSelect RNase Block 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]

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

Type

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SECTION 3: Composition/information on ingredients

- [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.
	dNTP Mix	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	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.
	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.
	SureSelect Binding Buffer	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	SureSelect Wash Buffer 1	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	SureSelect Wash Buffer 2	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	SureSelect XT HS Blocker Mix	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	SureSelect Fast Hybridization Buffer	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	SureSelect RNase Block	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	SureSelect Post-Capture Primer Mix	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	SureSelect XT HS Index Primer A03-H04	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

SECTION 4: First aid measures

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.
dNTP Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
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.
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 products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
SureSelect Binding Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureSelect Wash Buffer 1	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureSelect Wash Buffer 2	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureSelect XT HS Blocker Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureSelect Fast Hybridization 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.
SureSelect RNase Block	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
SureSelect Post-Capture Primer Mix	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 A03-H04	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if

SECTION 4: First aid measures

Skin contact

: End Repair-A Tailing Enzyme Mix	symptoms occur. 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.
dNTP Mix	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.
5X Herculase II Reaction Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect Binding Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect Wash Buffer 1	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect Wash Buffer 2	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect XT HS Blocker Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect Fast Hybridization Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect RNase Block	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect Post-Capture Primer Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
SureSelect XT HS Index Primer A03-H04	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

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T4 DNA Ligase	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.
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 induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Adaptor Oligo 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.
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.
dNTP Mix	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
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.
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.
SureSelect Binding Buffer	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
SureSelect Wash Buffer 1	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
SureSelect Wash Buffer 2	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.

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SureSelect XT HS Blocker 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.
SureSelect Fast Hybridization Buffer	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
SureSelect RNase Block	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 Post-Capture Primer 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.
SureSelect XT HS Index Primer A03-H04	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 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.
dNTP Mix	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.
5X Herculase II Reaction Buffer	No action shall be taken involving any personal risk or without suitable training.
SureSelect Binding Buffer	No action shall be taken involving any personal risk or without suitable training.
SureSelect Wash Buffer 1	No action shall be taken involving any personal risk or without suitable training.
SureSelect Wash Buffer 2	No action shall be taken involving any personal risk or without suitable training.
SureSelect XT HS Blocker Mix	No action shall be taken involving any personal risk or without suitable training.
SureSelect Fast Hybridization Buffer	No action shall be taken involving any personal risk or without suitable training.
SureSelect RNase Block	No action shall be taken involving any personal risk or without suitable training.
SureSelect Post-Capture Primer Mix	No action shall be taken involving any personal risk or without suitable training.

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.
dNTP Mix	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.
5X Herculase II Reaction Buffer	No action shall be taken involving any personal risk or without suitable training.
SureSelect Binding Buffer	No action shall be taken involving any personal risk or without suitable training.
SureSelect Wash Buffer 1	No action shall be taken involving any personal risk or without suitable training.
SureSelect Wash Buffer 2	No action shall be taken involving any personal risk or without suitable training.
SureSelect XT HS Blocker Mix	No action shall be taken involving any personal risk or without suitable training.
SureSelect Fast Hybridization Buffer	No action shall be taken involving any personal risk or without suitable training.
SureSelect RNase Block	No action shall be taken involving any personal risk or without suitable training.
SureSelect Post-Capture Primer Mix	No action shall be taken involving any personal risk or without suitable training.

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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.	
		dNTP Mix	No known significant effects or critical hazards.	
		Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.	
		5X Herculase II Reaction Buffer	No known significant effects or critical hazards.	
		SureSelect Binding Buffer	No known significant effects or critical hazards.	
		SureSelect Wash Buffer 1	No known significant effects or critical hazards.	
		SureSelect Wash Buffer 2	No known significant effects or critical hazards.	
		SureSelect XT HS Blocker Mix	No known significant effects or critical hazards.	
		SureSelect Fast Hybridization Buffer	No known significant effects or critical hazards.	
		SureSelect RNase Block	No known significant effects or critical hazards.	
		SureSelect Post-Capture Primer Mix	No known significant effects or critical hazards.	
		SureSelect XT HS Index Primer A03-H04	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.
		dNTP Mix	No known significant effects or critical hazards.	
		Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.	
		5X Herculase II Reaction Buffer	No known significant effects or critical hazards.	
		SureSelect Binding Buffer	No known significant effects or critical hazards.	
		SureSelect Wash Buffer 1	No known significant effects or critical hazards.	
		SureSelect Wash Buffer 2	No known significant effects or critical hazards.	
		SureSelect XT HS Blocker Mix	No known significant effects or critical hazards.	
		SureSelect Fast Hybridization Buffer	No known significant effects or critical hazards.	
		SureSelect RNase Block	No known significant effects or critical hazards.	
		SureSelect Post-Capture Primer Mix	No known significant effects or critical hazards.	
		SureSelect XT HS Index Primer A03-H04	No known significant effects or critical hazards.	

Over-exposure signs/symptoms

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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.	
		dNTP Mix	No specific data.	
		Herculase II Fusion DNA Polymerase	No specific data.	
		5X Herculase II Reaction Buffer	No specific data.	
		SureSelect Binding Buffer	No specific data.	
		SureSelect Wash Buffer 1	No specific data.	
		SureSelect Wash Buffer 2	No specific data.	
		SureSelect XT HS Blocker Mix	No specific data.	
		SureSelect Fast Hybridization Buffer	No specific data.	
		SureSelect RNase Block	No specific data.	
		SureSelect Post-Capture Primer Mix	No specific data.	
		SureSelect XT HS Index Primer A03-H04	No specific data.	
	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.
			dNTP Mix	No specific data.
			Herculase II Fusion DNA Polymerase	No specific data.
			5X Herculase II Reaction Buffer	No specific data.
			SureSelect Binding Buffer	No specific data.
		SureSelect Wash Buffer 1	No specific data.	
		SureSelect Wash Buffer 2	No specific data.	
		SureSelect XT HS Blocker Mix	No specific data.	
		SureSelect Fast Hybridization Buffer	No specific data.	
		SureSelect RNase Block	No specific data.	
		SureSelect Post-Capture Primer Mix	No specific data.	
		SureSelect XT HS Index Primer A03-H04	No specific data.	

SECTION 4: First aid measures

Skin contact	:	End Repair-A Tailing Enzyme Mix	No specific data.	
		End Repair-A Tailing Buffer	No specific data.	
		T4 DNA Ligase Ligation Buffer	No specific data.	
		Adaptor Oligo Mix	No specific data.	
		Forward Primer	No specific data.	
		dNTP Mix	No specific data.	
		Herculase II Fusion DNA Polymerase	No specific data.	
		5X Herculase II Reaction Buffer	No specific data.	
		SureSelect Binding Buffer	No specific data.	
		SureSelect Wash Buffer 1	No specific data.	
		SureSelect Wash Buffer 2	No specific data.	
		SureSelect XT HS Blocker Mix	No specific data.	
		SureSelect Fast Hybridization Buffer	No specific data.	
		SureSelect RNase Block	No specific data.	
		SureSelect Post-Capture Primer Mix	No specific data.	
		SureSelect XT HS Index Primer A03-H04	No specific data.	
	Ingestion	:	End Repair-A Tailing Enzyme Mix	No specific data.
			End Repair-A Tailing Buffer	No specific data.
			T4 DNA Ligase Ligation Buffer	No specific data.
			Adaptor Oligo Mix	No specific data.
			Forward Primer	No specific data.
			dNTP Mix	No specific data.
			Herculase II Fusion DNA Polymerase	No specific data.
		5X Herculase II Reaction Buffer	No specific data.	
		SureSelect Binding Buffer	No specific data.	
		SureSelect Wash Buffer 1	No specific data.	
		SureSelect Wash Buffer 2	No specific data.	
		SureSelect XT HS Blocker Mix	No specific data.	
		SureSelect Fast Hybridization Buffer	No specific data.	
		SureSelect RNase Block	No specific data.	
		SureSelect Post-Capture Primer Mix	No specific data.	
		SureSelect XT HS Index Primer A03-H04	No specific data.	

4.3 Indication of any immediate medical attention and special treatment needed

SECTION 4: First aid measures

Notes to physician	: End Repair-A Tailing Enzyme Mix End Repair-A Tailing Buffer T4 DNA Ligase Ligation Buffer Adaptor Oligo Mix Forward Primer dNTP Mix Herculase II Fusion DNA Polymerase 5X Herculase II Reaction Buffer SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer 2 SureSelect XT HS Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect Post-Capture Primer Mix SureSelect XT HS Index Primer A03-H04	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: End Repair-A Tailing Enzyme Mix End Repair-A Tailing Buffer T4 DNA Ligase Ligation Buffer Adaptor Oligo Mix Forward Primer dNTP Mix Herculase II Fusion DNA Polymerase 5X Herculase II Reaction Buffer SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer 2 SureSelect XT HS Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block	No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment.

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SureSelect Post-Capture Primer Mix	No specific treatment.
SureSelect XT HS Index Primer A03-H04	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.	
		dNTP Mix	Use an extinguishing agent suitable for the surrounding fire.	
		Herculase II Fusion DNA Polymerase	Use an extinguishing agent suitable for the surrounding fire.	
		5X Herculase II Reaction Buffer	Use an extinguishing agent suitable for the surrounding fire.	
		SureSelect Binding Buffer	Use an extinguishing agent suitable for the surrounding fire.	
		SureSelect Wash Buffer 1	Use an extinguishing agent suitable for the surrounding fire.	
		SureSelect Wash Buffer 2	Use an extinguishing agent suitable for the surrounding fire.	
		SureSelect XT HS Blocker Mix	Use an extinguishing agent suitable for the surrounding fire.	
		SureSelect Fast Hybridization Buffer	Use an extinguishing agent suitable for the surrounding fire.	
		SureSelect RNase Block	Use an extinguishing agent suitable for the surrounding fire.	
		SureSelect Post-Capture Primer Mix	Use an extinguishing agent suitable for the surrounding fire.	
		SureSelect XT HS Index Primer A03-H04	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	None known.
		Ligation Buffer	None known.	
		Adaptor Oligo Mix	None known.	
		Forward Primer	None known.	
		dNTP Mix	None known.	
		Herculase II Fusion DNA Polymerase	None known.	
		5X Herculase II Reaction Buffer	None known.	
		SureSelect Binding Buffer	None known.	
		SureSelect Wash Buffer 1	None known.	
		SureSelect Wash Buffer 2	None known.	
		SureSelect XT HS Blocker Mix	None known.	
		SureSelect Fast Hybridization Buffer	None known.	
		SureSelect RNase Block	None known.	
		SureSelect Post-Capture Primer Mix	None known.	

SECTION 5: Firefighting measures

SureSelect XT HS Index Primer A03-H04 None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	: End Repair-A Tailing Enzyme Mix End Repair-A Tailing Buffer T4 DNA Ligase Ligation Buffer Adaptor Oligo Mix Forward Primer dNTP Mix Herculase II Fusion DNA Polymerase 5X Herculase II Reaction Buffer SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer 2 SureSelect XT HS Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect Post-Capture Primer Mix SureSelect XT HS Index Primer A03-H04	In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. 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 End Repair-A Tailing Buffer T4 DNA Ligase Ligation Buffer Adaptor Oligo Mix Forward Primer dNTP Mix	Decomposition products may include the following materials: carbon dioxide carbon monoxide Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides Decomposition products may include the following materials: carbon dioxide carbon monoxide Decomposition products may include the following materials: carbon dioxide carbon monoxide Decomposition products may include the following materials: carbon dioxide carbon monoxide No specific data. No specific data. Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides

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Herculase II Fusion DNA Polymerase	phosphorus oxides Decomposition products may include the following materials: carbon dioxide carbon monoxide
5X Herculase II Reaction Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides
SureSelect Binding Buffer	Decomposition products may include the following materials: halogenated compounds metal oxide/oxides
SureSelect Wash Buffer 1	No specific data.
SureSelect Wash Buffer 2	No specific data.
SureSelect XT HS Blocker Mix	No specific data.
SureSelect Fast Hybridization Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides
SureSelect RNase Block	Decomposition products may include the following materials: carbon dioxide carbon monoxide
SureSelect Post-Capture Primer Mix	No specific data.
SureSelect XT HS Index Primer A03-H04	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.
dNTP Mix	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
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

SECTION 5: Firefighting measures

5X Herculase II Reaction Buffer	taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
SureSelect Binding Buffer	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
SureSelect Wash Buffer 1	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
SureSelect Wash Buffer 2	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
SureSelect XT HS Blocker Mix	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
SureSelect Fast Hybridization Buffer	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
SureSelect RNase Block	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
SureSelect Post-Capture Primer Mix	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
SureSelect XT HS Index Primer A03-H04	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 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.
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)

SECTION 5: Firefighting measures

dNTP Mix	conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
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.
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.
SureSelect Binding Buffer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
SureSelect Wash Buffer 1	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
SureSelect Wash Buffer 2	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
SureSelect XT HS Blocker Mix	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
SureSelect Fast Hybridization Buffer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
SureSelect RNase Block	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
SureSelect Post-Capture Primer Mix	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 5: Firefighting measures

SureSelect XT HS Index Primer A03-H04	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.
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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.
dNTP 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.
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.
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.
SureSelect Binding Buffer	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
SureSelect Wash Buffer 1	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas.

SECTION 6: Accidental release measures

Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

SureSelect Wash Buffer 2
No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

SureSelect XT HS Blocker 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 spilled material. Put on appropriate personal protective equipment.

SureSelect Fast Hybridization 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 spilled material. Put on appropriate personal protective equipment.

SureSelect RNase Block
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 spilled material. Put on appropriate personal protective equipment.

SureSelect Post-Capture Primer 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 spilled material. Put on appropriate personal protective equipment.

SureSelect XT HS Index Primer A03-H04
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 spilled 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 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".

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

Herculase II Fusion DNA
If specialised clothing is required to deal with the spillage,

SECTION 6: Accidental release measures

Polymerase	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".
SureSelect Binding Buffer	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect Wash Buffer 1	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect Wash Buffer 2	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect XT HS Blocker Mix	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect Fast Hybridization Buffer	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect RNase Block	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect Post-Capture Primer Mix	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SureSelect XT HS Index Primer A03-H04	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

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	soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
dNTP Mix	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
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).
5X Herculase II Reaction Buffer	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect Binding Buffer	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect Wash Buffer 1	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect Wash Buffer 2	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect XT HS Blocker Mix	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect Fast Hybridization Buffer	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect RNase Block	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect Post-Capture Primer Mix	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
SureSelect XT HS Index Primer A03-H04	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,

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	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.
dNTP Mix	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
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.
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.
SureSelect Binding Buffer	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
SureSelect Wash Buffer 1	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
SureSelect Wash Buffer 2	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
SureSelect XT HS Blocker Mix	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
SureSelect Fast Hybridization Buffer	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
SureSelect RNase Block	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose

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T4 DNA Ligase	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.
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. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
dNTP Mix	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
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.
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.
SureSelect Binding 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.
SureSelect Wash Buffer 1	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 Wash Buffer 2	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and

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SureSelect XT HS Blocker Mix	protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
SureSelect Fast Hybridization 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.
SureSelect RNase Block	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 Post-Capture Primer Mix	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
SureSelect XT HS Index Primer A03-H04	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

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	<p>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>
Ligation 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>
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>
dNTP 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>
Herculase II Fusion DNA Polymerase	<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	<p>Storage temperature: -80°C (-112°F). Store in accordance</p>

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Buffer	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.
SureSelect Binding 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.
SureSelect Wash Buffer 1	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.
SureSelect Wash Buffer 2	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.
SureSelect XT HS Blocker 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.
SureSelect Fast Hybridization 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

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SureSelect RNase Block	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.
SureSelect Post-Capture Primer 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.
SureSelect XT HS Index Primer A03-H04	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.

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.
dNTP Mix	Industrial applications, Professional applications.
Herculase II Fusion DNA Polymerase	Industrial applications, Professional applications.
5X Herculase II Reaction Buffer	Industrial applications, Professional applications.
SureSelect Binding Buffer	Industrial applications, Professional applications.
SureSelect Wash Buffer 1	Industrial applications, Professional applications.
SureSelect Wash Buffer 2	Industrial applications, Professional applications.
SureSelect XT HS Blocker Mix	Industrial applications, Professional applications.
SureSelect Fast Hybridization Buffer	Industrial applications, Professional applications.

SureSelect XT HS Reagent Kit with indexes 17-32, 16 reactions, Part Number G9702B

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	SureSelect RNase Block	Industrial applications, Professional applications.
	SureSelect Post-Capture Primer Mix	Industrial applications, Professional applications.
	SureSelect XT HS Index Primer A03-H04	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.
	dNTP Mix	Not applicable.
	Herculase II Fusion DNA Polymerase	Not applicable.
	5X Herculase II Reaction Buffer	Not applicable.
	SureSelect Binding Buffer	Not applicable.
	SureSelect Wash Buffer 1	Not applicable.
	SureSelect Wash Buffer 2	Not applicable.
	SureSelect XT HS Blocker Mix	Not applicable.
	SureSelect Fast Hybridization Buffer	Not applicable.
	SureSelect RNase Block	Not applicable.
	SureSelect Post-Capture Primer Mix	Not applicable.
	SureSelect XT HS Index Primer A03-H04	Not applicable.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

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
SureSelect RNase Block Glycerol	EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 10 mg/m ³ 8 hours. Form: Mist

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SECTION 8: Exposure controls/personal protection

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

Product/ingredient name	Type	Exposure	Value	Population	Effects	
5X Herculase II Reaction Buffer Trometamol	DNEL	Long term Oral	8.3 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Inhalation	29 mg/m ³	General population	Systemic	
	DNEL	Long term Dermal	83.3 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Inhalation	117.5 mg/m ³	Workers	Systemic	
	DNEL	Long term Dermal	166.7 mg/kg bw/day	Workers	Systemic	
	Ammonium sulphate	DNEL	Long term Inhalation	1.667 mg/m ³	General population	Systemic
		DNEL	Long term Oral	6.4 mg/kg bw/day	General population	Systemic
		DNEL	Long term Inhalation	11.167 mg/m ³	Workers	Systemic
		DNEL	Long term Dermal	12.8 mg/kg bw/day	General population	Systemic
	SureSelect Binding Buffer Sodium chloride	DNEL	Long term Dermal	42.667 mg/kg bw/day	Workers	Systemic
DNEL		Short term Oral	126.65 mg/kg bw/day	General population	Systemic	
DNEL		Long term Oral	126.65 mg/kg bw/day	General population	Systemic	
DNEL		Short term Dermal	126.65 mg/kg bw/day	General population	Systemic	
DNEL		Long term Dermal	126.65 mg/kg bw/day	General population	Systemic	
DNEL		Short term Dermal	295.52 mg/kg bw/day	Workers	Systemic	
DNEL		Long term Dermal	295.52 mg/kg bw/day	Workers	Systemic	
DNEL		Short term Inhalation	443.28 mg/m ³	General population	Systemic	
DNEL		Long term Inhalation	443.28 mg/m ³	General population	Systemic	
DNEL		Short term Inhalation	2068.62 mg/m ³	Workers	Systemic	
DNEL	Long term Inhalation	2068.62 mg/m ³	Workers	Systemic		

PNECs

No PNECs available

SECTION 8: Exposure controls/personal protection

8.2 Exposure controls

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

Individual protection measures

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

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

Skin protection

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

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

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

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

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

SECTION 9: Physical and chemical properties

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.
		dNTP Mix	Liquid.
		Herculase II Fusion DNA Polymerase	Liquid.
		5X Herculase II Reaction Buffer	Liquid.
		SureSelect Binding Buffer	Liquid.
		SureSelect Wash Buffer 1	Liquid.
		SureSelect Wash Buffer 2	Liquid.
		SureSelect XT HS	Liquid.

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SECTION 9: Physical and chemical properties

	Blocker Mix	
	SureSelect Fast	Liquid.
	Hybridization Buffer	
	SureSelect RNase	Liquid.
	Block	
	SureSelect Post-Capture Primer Mix	Liquid.
	SureSelect XT HS	Liquid.
	Index Primer A03-H04	
Colour	: End Repair-A Tailing	Not available.
	Enzyme Mix	
	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.
	dNTP Mix	Not available.
	Herculase II Fusion DNA Polymerase	Not available.
	5X Herculase II Reaction Buffer	Not available.
	SureSelect Binding Buffer	Not available.
	SureSelect Wash Buffer 1	Not available.
	SureSelect Wash Buffer 2	Not available.
	SureSelect XT HS Blocker Mix	Not available.
	SureSelect Fast	Not available.
	Hybridization Buffer	
	SureSelect RNase	Not available.
	Block	
	SureSelect Post-Capture Primer Mix	Not available.
	SureSelect XT HS	Not available.
	Index Primer A03-H04	
Odour	: End Repair-A Tailing	Not available.
	Enzyme Mix	
	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.
	dNTP Mix	Not available.
	Herculase II Fusion DNA Polymerase	Not available.
	5X Herculase II Reaction Buffer	Not available.
	SureSelect Binding Buffer	Not available.
	SureSelect Wash Buffer 1	Not available.
	SureSelect Wash Buffer 2	Not available.
	SureSelect XT HS	Not available.
	Blocker Mix	
	SureSelect Fast	Not available.
	Hybridization Buffer	

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SECTION 9: Physical and chemical properties

	SureSelect RNase Block	Not available.
	SureSelect Post-Capture Primer Mix	Not available.
	SureSelect XT HS Index Primer A03-H04	Not available.
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.
	dNTP Mix	Not available.
	Herculase II Fusion DNA Polymerase	Not available.
	5X Herculase II Reaction Buffer	Not available.
	SureSelect Binding Buffer	Not available.
	SureSelect Wash Buffer 1	Not available.
	SureSelect Wash Buffer 2	Not available.
	SureSelect XT HS Blocker Mix	Not available.
	SureSelect Fast Hybridization Buffer	Not available.
	SureSelect RNase Block	Not available.
	SureSelect Post-Capture Primer Mix	Not available.
	SureSelect XT HS Index Primer A03-H04	Not available.
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
	dNTP Mix	7.5
	Herculase II Fusion DNA Polymerase	7.7 to 8.7
	5X Herculase II Reaction Buffer	9.5 to 10.5
	SureSelect Binding Buffer	7.5
	SureSelect Wash Buffer 1	7
	SureSelect Wash Buffer 2	7
	SureSelect XT HS Blocker Mix	7.5
	SureSelect Fast Hybridization Buffer	Not available.
	SureSelect RNase Block	7.6
	SureSelect Post-Capture Primer Mix	7.5

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SECTION 9: Physical and chemical properties

	SureSelect XT HS	7.5
	Index Primer A03-H04	
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
	dNTP Mix	Not available.
	Herculase II Fusion DNA Polymerase	Not available.
	5X Herculase II Reaction Buffer	Not available.
	SureSelect Binding Buffer	Not available.
	SureSelect Wash Buffer 1	0°C
	SureSelect Wash Buffer 2	0°C
	SureSelect XT HS Blocker Mix	0°C
	SureSelect Fast Hybridization Buffer	Not available.
	SureSelect RNase Block	Not available.
	SureSelect Post-Capture Primer Mix	0°C
	SureSelect XT HS Index Primer A03-H04	0°C
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
	dNTP Mix	Not available.
	Herculase II Fusion DNA Polymerase	Not available.
	5X Herculase II Reaction Buffer	Not available.
	SureSelect Binding Buffer	Not available.
	SureSelect Wash Buffer 1	100°C
	SureSelect Wash Buffer 2	100°C
	SureSelect XT HS Blocker Mix	100°C
	SureSelect Fast Hybridization Buffer	Not available.
	SureSelect RNase Block	Not available.
	SureSelect Post-Capture Primer Mix	100°C
	SureSelect XT HS Index Primer A03-H04	100°C

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SECTION 9: Physical and chemical properties

Flash point	:	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.
		dNTP Mix	Not available.
		Herculase II Fusion DNA Polymerase	Not available.
		5X Herculase II	Not available.
		Reaction Buffer	Not available.
		SureSelect Binding Buffer	Not available.
		SureSelect Wash Buffer 1	Not available.
		SureSelect Wash Buffer 2	Not available.
		SureSelect XT HS Blocker Mix	Not available.
		SureSelect Fast Hybridization Buffer	Not available.
		SureSelect RNase Block	Not available.
		SureSelect Post-Capture Primer Mix	Not available.
		SureSelect XT HS Index Primer A03-H04	Not available.

Evaporation rate	:	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.
		dNTP Mix	Not available.
		Herculase II Fusion DNA Polymerase	Not available.
		5X Herculase II	Not available.
		Reaction Buffer	Not available.
		SureSelect Binding Buffer	Not available.
		SureSelect Wash Buffer 1	Not available.
		SureSelect Wash Buffer 2	Not available.
		SureSelect XT HS Blocker Mix	Not available.
		SureSelect Fast Hybridization Buffer	Not available.
		SureSelect RNase Block	Not available.
		SureSelect Post-Capture Primer Mix	Not available.
		SureSelect XT HS Index Primer A03-H04	Not available.

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SECTION 9: Physical and chemical properties

Flammability (solid, gas)	:	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.
		dNTP Mix	Not applicable.
		Herculase II Fusion DNA Polymerase	Not applicable.
		5X Herculase II	Not applicable.
		Reaction Buffer	Not applicable.
		SureSelect Binding Buffer	Not applicable.
		SureSelect Wash Buffer 1	Not applicable.
		SureSelect Wash Buffer 2	Not applicable.
		SureSelect XT HS Blocker Mix	Not applicable.
		SureSelect Fast Hybridization Buffer	Not applicable.
		SureSelect RNase Block	Not applicable.
		SureSelect Post-Capture Primer Mix	Not applicable.
		SureSelect XT HS Index Primer A03-H04	Not applicable.

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.
		dNTP Mix	Not available.
		Herculase II Fusion DNA Polymerase	Not available.
		5X Herculase II	Not available.
		Reaction Buffer	Not available.
		SureSelect Binding Buffer	Not available.
		SureSelect Wash Buffer 1	Not available.
		SureSelect Wash Buffer 2	Not available.
		SureSelect XT HS Blocker Mix	Not available.
		SureSelect Fast Hybridization Buffer	Not available.
		SureSelect RNase Block	Not available.
		SureSelect Post-Capture Primer Mix	Not available.
		SureSelect XT HS Index Primer A03-H04	Not available.

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SECTION 9: Physical and chemical properties

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.	
		dNTP Mix	Not available.	
		Herculase II Fusion DNA Polymerase	Not available.	
		5X Herculase II	Not available.	
		Reaction Buffer	Not available.	
		SureSelect Binding Buffer	Not available.	
		SureSelect Wash Buffer 1	Not available.	
		SureSelect Wash Buffer 2	Not available.	
		SureSelect XT HS Blocker Mix	Not available.	
		SureSelect Fast Hybridization Buffer	Not available.	
		SureSelect RNase Block	Not available.	
		SureSelect Post-Capture Primer Mix	Not available.	
		SureSelect XT HS Index Primer A03-H04	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.	
		dNTP Mix	Not available.	
		Herculase II Fusion DNA Polymerase	Not available.	
		5X Herculase II	Not available.	
		Reaction Buffer	Not available.	
		SureSelect Binding Buffer	Not available.	
		SureSelect Wash Buffer 1	Not available.	
		SureSelect Wash Buffer 2	Not available.	
		SureSelect XT HS Blocker Mix	Not available.	
		SureSelect Fast Hybridization Buffer	Not available.	
		SureSelect RNase Block	Not available.	
		SureSelect Post-Capture Primer Mix	Not available.	
		SureSelect XT HS Index Primer A03-H04	Not available.	

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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.	
		dNTP Mix	Not available.	
		Herculase II Fusion DNA Polymerase	Not available.	
		5X Herculase II Reaction Buffer	Not available.	
		SureSelect Binding Buffer	Not available.	
		SureSelect Wash Buffer 1	Not available.	
		SureSelect Wash Buffer 2	Not available.	
		SureSelect XT HS Blocker Mix	Not available.	
		SureSelect Fast Hybridization Buffer	Not available.	
		SureSelect RNase Block	Not available.	
		SureSelect Post-Capture Primer Mix	Not available.	
		SureSelect XT HS Index Primer A03-H04	Not available.	
	Solubility(ies)	:	End Repair-A Tailing Enzyme Mix	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	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.	
		dNTP Mix	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.	
		5X Herculase II Reaction Buffer	Easily soluble in the following materials: cold water and hot water.	
		SureSelect Binding Buffer	Easily soluble in the following materials: cold water and hot water.	
		SureSelect Wash Buffer 1	Easily soluble in the following materials: cold water and hot water.	
		SureSelect Wash Buffer 2	Easily soluble in the following materials: cold water and hot water.	
		SureSelect XT HS Blocker Mix	Easily soluble in the following materials: cold water and hot water.	
		SureSelect Fast Hybridization Buffer	Soluble in the following materials: cold water and hot water.	
		SureSelect RNase Block	Soluble in the following materials: cold water and hot water.	
		SureSelect Post-Capture Primer Mix	Easily soluble in the following materials: cold water and hot water.	
		SureSelect XT HS	Easily soluble in the following materials: cold water and	

SECTION 9: Physical and chemical properties

	Index Primer A03-H04	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.	
	dNTP Mix	Not available.	
	Herculase II Fusion DNA Polymerase	Not available.	
	5X Herculase II Reaction Buffer	Not available.	
	SureSelect Binding Buffer	Not available.	
	SureSelect Wash Buffer 1	Not available.	
	SureSelect Wash Buffer 2	Not available.	
	SureSelect XT HS Blocker Mix	Not available.	
	SureSelect Fast Hybridization Buffer	Not available.	
	SureSelect RNase Block	Not available.	
	SureSelect Post-Capture Primer Mix	Not available.	
	SureSelect XT HS Index Primer A03-H04	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.	
dNTP Mix		Not available.	
Herculase II Fusion DNA Polymerase		Not available.	
5X Herculase II Reaction Buffer		Not available.	
SureSelect Binding Buffer		Not available.	
SureSelect Wash Buffer 1		Not available.	
SureSelect Wash Buffer 2		Not available.	
SureSelect XT HS Blocker Mix		Not available.	
SureSelect Fast Hybridization Buffer		Not available.	
SureSelect RNase Block		Not available.	
SureSelect Post-Capture Primer Mix		Not available.	
SureSelect XT HS Index Primer A03-H04		Not available.	

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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.		
		dNTP Mix	Not available.		
		Herculase II Fusion DNA Polymerase	Not available.		
		5X Herculase II Reaction Buffer	Not available.		
		SureSelect Binding Buffer	Not available.		
		SureSelect Wash Buffer 1	Not available.		
		SureSelect Wash Buffer 2	Not available.		
		SureSelect XT HS Blocker Mix	Not available.		
		SureSelect Fast Hybridization Buffer	Not available.		
		SureSelect RNase Block	Not available.		
		SureSelect Post-Capture Primer Mix	Not available.		
		SureSelect XT HS Index Primer A03-H04	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.
				dNTP Mix	Not available.
				Herculase II Fusion DNA Polymerase	Not available.
				5X Herculase II Reaction Buffer	Not available.
				SureSelect Binding Buffer	Not available.
SureSelect Wash Buffer 1	Not available.				
SureSelect Wash Buffer 2	Not available.				
SureSelect XT HS Blocker Mix	Not available.				
SureSelect Fast Hybridization Buffer	Not available.				
SureSelect RNase Block	Not available.				
SureSelect Post-Capture Primer Mix	Not available.				
SureSelect XT HS Index Primer A03-H04	Not available.				

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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.
		dNTP Mix	Not available.
		Herculase II Fusion	Not available.
		DNA Polymerase	
		5X Herculase II	Not available.
		Reaction Buffer	
		SureSelect Binding Buffer	Not available.
		SureSelect Wash Buffer 1	Not available.
		SureSelect Wash Buffer 2	Not available.
		SureSelect XT HS Blocker Mix	Not available.
		SureSelect Fast Hybridization Buffer	Not available.
		SureSelect RNase Block	Not available.
		SureSelect Post-Capture Primer Mix	Not available.
		SureSelect XT HS Index Primer A03-H04	Not available.
	Oxidising properties	:	End Repair-A Tailing Enzyme Mix
		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.
		dNTP Mix	Not available.
		Herculase II Fusion	Not available.
		DNA Polymerase	
		5X Herculase II	Not available.
		Reaction Buffer	
		SureSelect Binding Buffer	Not available.
		SureSelect Wash Buffer 1	Not available.
		SureSelect Wash Buffer 2	Not available.
		SureSelect XT HS Blocker Mix	Not available.
		SureSelect Fast Hybridization Buffer	Not available.
		SureSelect RNase Block	Not available.
		SureSelect Post-Capture Primer Mix	Not available.
		SureSelect XT HS Index Primer A03-H04	Not available.

9.2 Other information

No additional information.


Date of issue/Date of revision : 15/01/2019

49/66


SECTION 10: Stability and reactivity

SureSelect XT HS Index Primer A03-H04 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.
	dNTP Mix	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.
	5X Herculase II Reaction Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
	SureSelect Binding Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
	SureSelect Wash Buffer 1	Under normal conditions of storage and use, hazardous reactions will not occur.
	SureSelect Wash Buffer 2	Under normal conditions of storage and use, hazardous reactions will not occur.
	SureSelect XT HS Blocker Mix	Under normal conditions of storage and use, hazardous reactions will not occur.
	SureSelect Fast Hybridization Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
	SureSelect RNase Block	Under normal conditions of storage and use, hazardous reactions will not occur.
	SureSelect Post-Capture Primer Mix	Under normal conditions of storage and use, hazardous reactions will not occur.
	SureSelect XT HS Index Primer A03-H04	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.
	dNTP Mix	No specific data.
	Herculase II Fusion DNA Polymerase	No specific data.
	5X Herculase II Reaction Buffer	No specific data.
	SureSelect Binding Buffer	No specific data.
	SureSelect Wash Buffer 1	No specific data.
	SureSelect Wash Buffer 2	No specific data.
	SureSelect XT HS Blocker Mix	No specific data.
	SureSelect Fast Hybridization Buffer	No specific data.

SECTION 10: Stability and reactivity

SureSelect RNase Block No specific data.
 SureSelect Post-Capture Primer Mix No specific data.
 SureSelect XT HS Index Primer A03-H04 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.
 dNTP Mix May react or be incompatible with oxidising materials.
 Herculase II Fusion DNA Polymerase May react or be incompatible with oxidising materials.
 5X Herculase II Reaction Buffer May react or be incompatible with oxidising materials.
 SureSelect Binding Buffer May react or be incompatible with oxidising materials.
 SureSelect Wash Buffer 1 May react or be incompatible with oxidising materials.
 SureSelect Wash Buffer 2 May react or be incompatible with oxidising materials.
 SureSelect XT HS Blocker Mix May react or be incompatible with oxidising materials.
 SureSelect Fast Hybridization Buffer May react or be incompatible with oxidising materials.
 SureSelect RNase Block SureSelect Post-Capture Primer Mix May react or be incompatible with oxidising materials.
 SureSelect XT HS Index Primer A03-H04 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.
 dNTP Mix 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.
 5X Herculase II Reaction Buffer Under normal conditions of storage and use, hazardous decomposition products should not be produced.
 SureSelect Binding Buffer Under normal conditions of storage and use, hazardous decomposition products should not be produced.
 SureSelect Wash Buffer 1 Under normal conditions of storage and use, hazardous decomposition products should not be produced.
 SureSelect Wash Buffer 2 Under normal conditions of storage and use, hazardous decomposition products should not be produced.
 SureSelect XT HS Blocker Mix Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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SECTION 10: Stability and reactivity

SureSelect Fast Hybridization Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureSelect RNase Block	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureSelect Post-Capture Primer Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SureSelect XT HS Index Primer A03-H04	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
5X Herculanse 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	-
SureSelect Binding Buffer				
Sodium chloride	LD50 Oral	Rat	3000 mg/kg	-

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
5X Herculanse II Reaction Buffer					
Trometamol	5000	N/A	N/A	N/A	N/A
Ammonium sulphate	2840	N/A	N/A	N/A	N/A
Hexadecan-1-ol, ethoxylated	2500	N/A	N/A	N/A	N/A
SureSelect Binding Buffer					
Sodium chloride	3000	N/A	N/A	N/A	N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
5X Herculanse II Reaction Buffer					
Trometamol	Skin - Moderate irritant	Rabbit	-	25 Percent	-
	Skin - Severe irritant	Rabbit	-	500 milligrams	-
SureSelect Binding Buffer					
Sodium chloride	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	10 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

Sensitiser

Conclusion/Summary : Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

SECTION 11: Toxicological information

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.
dNTP Mix	Not available.
Herculase II Fusion DNA Polymerase	Routes of entry anticipated: Oral, Dermal, Inhalation.
5X Herculase II Reaction Buffer	Routes of entry anticipated: Oral, Dermal, Inhalation.
SureSelect Binding Buffer	Not available.
SureSelect Wash Buffer 1	Not available.
SureSelect Wash Buffer 2	Not available.
SureSelect XT HS Blocker Mix	Not available.
SureSelect Fast Hybridization Buffer	Routes of entry anticipated: Oral, Dermal, Inhalation.
SureSelect RNase Block	Routes of entry anticipated: Oral, Dermal, Inhalation.
SureSelect Post-Capture Primer Mix	Not available.
SureSelect XT HS Index Primer A03-H04	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.
dNTP Mix	No known significant effects or critical hazards.
Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
SureSelect Binding Buffer	No known significant effects or critical hazards.
SureSelect Wash Buffer 1	No known significant effects or critical hazards.
SureSelect Wash Buffer 2	No known significant effects or critical hazards.
SureSelect XT HS Blocker Mix	No known significant effects or critical hazards.
SureSelect Fast Hybridization Buffer	No known significant effects or critical hazards.
SureSelect RNase Block	No known significant effects or critical hazards.
SureSelect Post-Capture Primer Mix	No known significant effects or critical hazards.
SureSelect XT HS Index	No known significant effects or critical hazards.

SECTION 11: Toxicological information

	Primer A03-H04	
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.
	dNTP Mix	No known significant effects or critical hazards.
	Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
	5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
	SureSelect Binding Buffer	No known significant effects or critical hazards.
	SureSelect Wash Buffer 1	No known significant effects or critical hazards.
	SureSelect Wash Buffer 2	No known significant effects or critical hazards.
	SureSelect XT HS Blocker Mix	No known significant effects or critical hazards.
	SureSelect Fast Hybridization Buffer	No known significant effects or critical hazards.
	SureSelect RNase Block	No known significant effects or critical hazards.
	SureSelect Post-Capture Primer Mix	No known significant effects or critical hazards.
	SureSelect XT HS Index Primer A03-H04	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.
	dNTP Mix	No known significant effects or critical hazards.
	Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
	5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
	SureSelect Binding Buffer	No known significant effects or critical hazards.
	SureSelect Wash Buffer 1	No known significant effects or critical hazards.
	SureSelect Wash Buffer 2	No known significant effects or critical hazards.
	SureSelect XT HS Blocker Mix	No known significant effects or critical hazards.
	SureSelect Fast Hybridization Buffer	No known significant effects or critical hazards.
	SureSelect RNase Block	No known significant effects or critical hazards.
	SureSelect Post-Capture Primer Mix	No known significant effects or critical hazards.
	SureSelect XT HS Index Primer A03-H04	No known significant effects or critical hazards.

SECTION 11: Toxicological information

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.
		dNTP Mix	No known significant effects or critical hazards.
		Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
		5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
		SureSelect Binding Buffer	No known significant effects or critical hazards.
		SureSelect Wash Buffer 1	No known significant effects or critical hazards.
		SureSelect Wash Buffer 2	No known significant effects or critical hazards.
		SureSelect XT HS Blocker Mix	No known significant effects or critical hazards.
		SureSelect Fast Hybridization Buffer	No known significant effects or critical hazards.
		SureSelect RNase Block	No known significant effects or critical hazards.
		SureSelect Post-Capture Primer Mix	No known significant effects or critical hazards.
		SureSelect XT HS Index Primer A03-H04	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

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.
		dNTP Mix	No specific data.
		Herculase II Fusion DNA Polymerase	No specific data.
		5X Herculase II Reaction Buffer	No specific data.
		SureSelect Binding Buffer	No specific data.
		SureSelect Wash Buffer 1	No specific data.
		SureSelect Wash Buffer 2	No specific data.
		SureSelect XT HS Blocker Mix	No specific data.
		SureSelect Fast Hybridization Buffer	No specific data.
		SureSelect RNase Block	No specific data.
		SureSelect Post-Capture Primer Mix	No specific data.
		SureSelect XT HS Index Primer A03-H04	No specific data.

SECTION 11: Toxicological information

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.	
		dNTP Mix	No specific data.	
		Herculase II Fusion DNA Polymerase	No specific data.	
		5X Herculase II Reaction Buffer	No specific data.	
		SureSelect Binding Buffer	No specific data.	
		SureSelect Wash Buffer 1	No specific data.	
		SureSelect Wash Buffer 2	No specific data.	
		SureSelect XT HS Blocker Mix	No specific data.	
		SureSelect Fast Hybridization Buffer	No specific data.	
		SureSelect RNase Block	No specific data.	
		SureSelect Post-Capture Primer Mix	No specific data.	
		SureSelect XT HS Index Primer A03-H04	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.
		dNTP Mix	No specific data.	
		Herculase II Fusion DNA Polymerase	No specific data.	
		5X Herculase II Reaction Buffer	No specific data.	
		SureSelect Binding Buffer	No specific data.	
		SureSelect Wash Buffer 1	No specific data.	
		SureSelect Wash Buffer 2	No specific data.	
		SureSelect XT HS Blocker Mix	No specific data.	
		SureSelect Fast Hybridization Buffer	No specific data.	
		SureSelect RNase Block	No specific data.	
		SureSelect Post-Capture Primer Mix	No specific data.	
		SureSelect XT HS Index Primer A03-H04	No specific data.	

SECTION 11: Toxicological information

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.
		dNTP Mix	No specific data.
		Herculase II Fusion DNA Polymerase	No specific data.
		5X Herculase II Reaction Buffer	No specific data.
		SureSelect Binding Buffer	No specific data.
		SureSelect Wash Buffer 1	No specific data.
		SureSelect Wash Buffer 2	No specific data.
		SureSelect XT HS Blocker Mix	No specific data.
		SureSelect Fast Hybridization Buffer	No specific data.
		SureSelect RNase Block	No specific data.
		SureSelect Post-Capture Primer Mix	No specific data.
		SureSelect XT HS Index Primer A03-H04	No specific data.

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

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

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.
		dNTP Mix	No known significant effects or critical hazards.
		Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
		5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
		SureSelect Binding Buffer	No known significant effects or critical hazards.
		SureSelect Wash Buffer 1	No known significant effects or critical hazards.
		SureSelect Wash Buffer 2	No known significant effects or critical hazards.

SECTION 11: Toxicological information

	SureSelect XT HS Blocker Mix	No known significant effects or critical hazards.
	SureSelect Fast Hybridization Buffer	No known significant effects or critical hazards.
	SureSelect RNase Block	No known significant effects or critical hazards.
	SureSelect Post-Capture Primer Mix	No known significant effects or critical hazards.
	SureSelect XT HS Index Primer A03-H04	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.
	dNTP Mix	No known significant effects or critical hazards.
	Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
	5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
	SureSelect Binding Buffer	No known significant effects or critical hazards.
	SureSelect Wash Buffer 1	No known significant effects or critical hazards.
	SureSelect Wash Buffer 2	No known significant effects or critical hazards.
	SureSelect XT HS Blocker Mix	No known significant effects or critical hazards.
	SureSelect Fast Hybridization Buffer	No known significant effects or critical hazards.
	SureSelect RNase Block	No known significant effects or critical hazards.
	SureSelect Post-Capture Primer Mix	No known significant effects or critical hazards.
	SureSelect XT HS Index Primer A03-H04	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.
	dNTP Mix	No known significant effects or critical hazards.
	Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
	5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
	SureSelect Binding Buffer	No known significant effects or critical hazards.
	SureSelect Wash Buffer 1	No known significant effects or critical hazards.
	SureSelect Wash Buffer 2	No known significant effects or critical hazards.
	SureSelect XT HS Blocker Mix	No known significant effects or critical hazards.
	SureSelect Fast Hybridization Buffer	No known significant effects or critical hazards.
	SureSelect RNase Block	No known significant effects or critical hazards.

SECTION 11: Toxicological information

	SureSelect Post-Capture Primer Mix	No known significant effects or critical hazards.
	SureSelect XT HS Index Primer A03-H04	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.
	dNTP Mix	No known significant effects or critical hazards.
	Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
	5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
	SureSelect Binding Buffer	No known significant effects or critical hazards.
	SureSelect Wash Buffer 1	No known significant effects or critical hazards.
	SureSelect Wash Buffer 2	No known significant effects or critical hazards.
	SureSelect XT HS Blocker Mix	No known significant effects or critical hazards.
	SureSelect Fast Hybridization Buffer	No known significant effects or critical hazards.
	SureSelect RNase Block	No known significant effects or critical hazards.
	SureSelect Post-Capture Primer Mix	No known significant effects or critical hazards.
	SureSelect XT HS Index Primer A03-H04	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.
	dNTP Mix	No known significant effects or critical hazards.
	Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
	5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
	SureSelect Binding Buffer	No known significant effects or critical hazards.
	SureSelect Wash Buffer 1	No known significant effects or critical hazards.
	SureSelect Wash Buffer 2	No known significant effects or critical hazards.
	SureSelect XT HS Blocker Mix	No known significant effects or critical hazards.
	SureSelect Fast Hybridization Buffer	No known significant effects or critical hazards.
	SureSelect RNase Block	No known significant effects or critical hazards.
	SureSelect Post-Capture Primer Mix	No known significant effects or critical hazards.
	SureSelect XT HS Index Primer A03-H04	No known significant effects or critical hazards.

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SECTION 11: Toxicological information

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.
	dNTP Mix	No known significant effects or critical hazards.
	Herculase II Fusion DNA Polymerase	No known significant effects or critical hazards.
	5X Herculase II Reaction Buffer	No known significant effects or critical hazards.
	SureSelect Binding Buffer	No known significant effects or critical hazards.
	SureSelect Wash Buffer 1	No known significant effects or critical hazards.
	SureSelect Wash Buffer 2	No known significant effects or critical hazards.
	SureSelect XT HS Blocker Mix	No known significant effects or critical hazards.
	SureSelect Fast Hybridization Buffer	No known significant effects or critical hazards.
	SureSelect RNase Block	No known significant effects or critical hazards.
	SureSelect Post-Capture Primer Mix	No known significant effects or critical hazards.
	SureSelect XT HS Index Primer A03-H04	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 Ammonium sulphate	Acute EC50 >980 mg/l Fresh water	Daphnia	48 hours
	Acute NOEC 520 mg/l Fresh water	Daphnia	48 hours
	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
	Chronic NOEC 143 µg/l Marine water	Fish - Salmo salar - Post-smolt	5 weeks
Hexadecan-1-ol, ethoxylated	Acute LC50 330000 to 1000000 µg/l Marine water	Crustaceans - Crangon crangon - Adult	48 hours
SureSelect Binding Buffer Sodium chloride	Acute EC50 4.74 g/L Fresh water	Algae - Chlamydomonas reinhardtii	96 hours
	Acute EC50 519.6 mg/l Fresh water	Crustaceans - Cypris subglobosa	48 hours
	Acute EC50 402.6 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute IC50 6.87 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute LC50 1000000 µg/l Fresh water	Fish - Morone saxatilis - Larvae	96 hours
	Chronic LC10 781 mg/l Fresh water	Crustaceans - Hyalella azteca - Juvenile (Fledgling, Hatchling, Weanling)	3 weeks

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SECTION 12: Ecological information

	Chronic NOEC 6 g/L Fresh water Chronic NOEC 0.314 g/L Fresh water Chronic NOEC 100 mg/l Fresh water	Aquatic plants - Lemna minor Daphnia - Daphnia pulex Fish - Gambusia holbrooki - Adult	96 hours 21 days 8 weeks
--	-----------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------	--------------------------------

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 Ammonium sulphate	-1.56 -5.1	- -	low low

12.4 Mobility in soil

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

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

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

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

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

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

Packaging

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

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

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SECTION 14: Transport information

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

Additional information

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

14.7 Transport in bulk according to 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	Not applicable.
Enzyme Mix	
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.
dNTP Mix	Not applicable.
Herculase II Fusion DNA Polymerase	Not applicable.
5X Herculase II Reaction Buffer	Not applicable.
SureSelect Binding Buffer	Not applicable.
SureSelect Wash Buffer 1	Not applicable.
SureSelect Wash Buffer 2	Not applicable.
SureSelect XT HS Blocker Mix	Not applicable.
SureSelect Fast Hybridization Buffer	Not applicable.
SureSelect RNase Block	Not applicable.
SureSelect Post- Capture	Not applicable.

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SECTION 15: Regulatory information

Primer Mix
SureSelect XT HS Index Not applicable.
Primer A03-H04

Other EU regulations

Ozone depleting substances (1005/2009/EU)

Not listed.

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

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.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: <input checked="" type="checkbox"/> 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.

SureSelect XT HS Reagent Kit with indexes 17-32, 16 reactions, Part Number G9702B

SECTION 16: Other information

✔ Indicates information that has changed from previously issued version.

Abbreviations and acronyms

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

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

Classification	Justification
Not classified.	

Full text of abbreviated H statements

<p>✔ End Repair-A Tailing Buffer H315 H319 H335</p> <p>5X Herculase II Reaction Buffer H315 H319 H335 H400 H412</p> <p>SureSelect Binding Buffer H319</p> <p>SureSelect Fast Hybridization Buffer H315 H319 H335</p>	<p>Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.</p> <p>Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. Very toxic to aquatic life. Harmful to aquatic life with long lasting effects.</p> <p>Causes serious eye irritation.</p> <p>Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.</p>
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Full text of classifications [CLP/GHS]

<p>✔ End Repair-A Tailing Buffer Eye Irrit. 2, H319 Skin Irrit. 2, H315 STOT SE 3, H335</p> <p>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</p> <p>SureSelect Binding Buffer Eye Irrit. 2, H319</p> <p>SureSelect Fast Hybridization Buffer Eye Irrit. 2, H319 Skin Irrit. 2, H315 STOT SE 3, H335</p>	<p>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3</p> <p>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</p> <p>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2</p> <p>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE</p>
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SureSelect XT HS Reagent Kit with indexes 17-32, 16 reactions, Part Number G9702B

SECTION 16: Other information

(Respiratory tract irritation) - Category 3

Date of issue/ Date of revision : 15/01/2019

Date of previous issue : 28/06/2017

Version : 2

Note * : A kit containing Agilent Part Number: 5500-0138, 5190-9684, 5190-9685, 5500-0142
*SureSelect XT HS Index Primer A03-H04: 5190-9740, 5190-9741, 5190-9742, 5190-9743, 5190-9744, 5190-9745, 5190-9746, 5190-9747, 5190-9748, 5190-9749, 5190-9750, 5190-9751, 5190-9752, 5190-9753, 5190-9754, 5190-9755

Notice to reader

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